

FALL 1963 - SPRING 1964 FRUIT TREE CATALOG AND GARDEN GUIDE

* INDEX

62



Best
From
the
West



C&O Nursery

COLUMBIA & OKANOGAN NURSERY COMPANY

P.O. BOX 116 • 2ND & MISSION ST. • WENATCHEE, WASH. 98801

"The Wenatchee Nurseries" Since 1906

National Agricultural Library

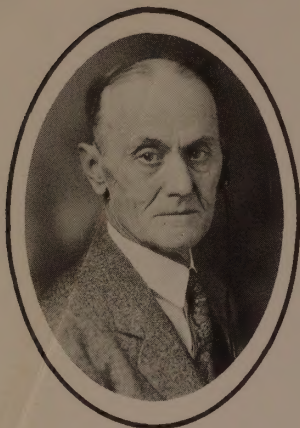
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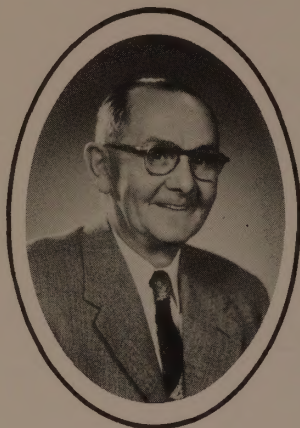
U. S. Department of Agriculture

Our experience

in growing nursery stock goes a long way back



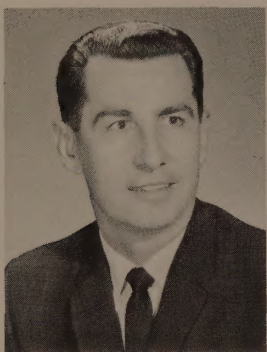
A. T. GOSSMAN
Founder
1906 - 1940



J. A. SNYDER
1909 - 1962



J. J. SNYDER
President and
Business Manager



R. E. SNYDER
Vice President and
Sales Manager



E. F. SNYDER
Secretary and
Landscape Architect

C&O Nursery

COLUMBIA &

OKANOGAN NURSERY

2ND & MISSION . P.O. BOX 116 WENATCHEE, WN. TEL. NO 2-7164

Washington's Oldest • • • Largest Nursery • Established in 1906

Fruit Trees
Shade Trees
Nut Trees
Shrubs

Evergreens
Boxes
Landscaping

To Our Many Friends:

In 1906 our Uncle started the C & O Nursery. Three years later our Father, J.A. 'Bert' Snyder, joined the organization and continued active until his passing in 1962.

From the first delivery of fruit trees in 1906 (pictured above), C & O has been supplying fruit trees to commercial growers in all sections of the U.S.

We realize there always will be a need to obtain improvements over what we have, and constantly on the alert for improved strains of commercial fruit varieties . . . Better Varieties to insure Greater Profit.

Trees normally live a long time and the difference in return between the strains that bring top market prices and the less desirable strains can determine the difference between profit and loss in the life time of the tree.

We appreciate the confidence our customers place in us, and will continue to strive to supply the highest quality fruit trees and other nursery stock as well as give the very finest service.

Thank you for your business.

John, Bob and Gene



IT'S CONVENIENT TO ORDER BY MAIL

General Information - please read carefully

ORDER BY MAIL WITH CONFIDENCE

We do our very best to give our customers absolute satisfaction and believe our products represent the best values in nursery stock that can be purchased today. Rather than attempt to include transportation costs in our prices, we feel our policy of charging you only the actual cost means savings for you. No charge is made for packaging. And unless instructed otherwise, we will ship the most economical way providing delivery in first class condition is assured.

WE PAY FREIGHT CHARGES

Within the State of Washington on shipments that weigh 100 pounds or over (excepting on Evergreens and other balled in earth shrubs). All shipments to points outside the State are sold f.o.b. Nursery and shipped by Express or Motor Freight—pay charges on arrival.

PARCEL POST SHIPMENTS f.o.b. NURSERY

Add 15% to cost of order to cover estimated postage . . . **any overpayment will be refunded** at time of shipment. When possible, orders will be sent by mail. Shipments too large to comply with postal regulations will be sent either Express or Motor Freight, transportation charges collect.

MINIMUM ORDER and TERMS OF PAYMENT

No shipping orders can be accepted for less than \$5.00. On orders of less than \$10, full payment should be sent with order. On larger orders, we request a 10% deposit with order and balance before shipment; or if desired we will ship C.O.D. For those who have established credit with us, our usual terms apply.

FRUIT TREE PRICES BASED ON TOTAL QUANTITY

All Fruit Trees in an order take the same quantity price . . . example, a total of 10 assorted apple, peach, pear, etc., take "10 rate," or a total of 25 assorted varieties (and sizes) take "25 rate."

STATE OF WASHINGTON SALES TAX

If you live in the State of Washington, add 4% Sales Tax **excepting** on sales of fruit trees or berry plants to **commercial growers** tax is not charged providing necessary Exemption Certificate is signed. **Special Form** provided on order blank.

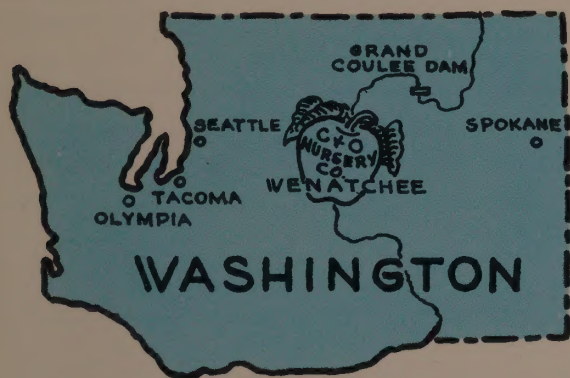
SHIPPING SEASON

Order early while assortment still is complete. Your order will be booked and reserved for planting time desired.

Depending upon weather conditions, just as soon as our stock is fully dormant in the fall we dig and bring into our modern storage where it is held in first class condition under controlled temperature and humidity . . . ready for delivery whenever weather conditions in your area permits planting. **Shipping Season** begins about November 20 and continues until late spring.

PLANTING INSTRUCTIONS

Most failures are caused by improper planting and lack of proper care for first 30 days after planting. It is not at all difficult to give plants the proper start in life if you but follow the directions we send you at time of shipment.



Wenatchee (and the C. & O. Nursery) is situated in nearly the geographic center of the State of Washington. Our location is adjacent to the great Grand Coulee Dam and the Columbia Basin development. Here many advantages are afforded for the production of top-quality nursery stock. We have rich volcanic ash soil, a long growing season, controlled moisture through irrigation, and excellent shipping facilities.

Guarantee

We guarantee all nursery stock shipped by us to be true-to-name, of first quality, free from insect pest or plant disease, and in good, live, growing condition when it reaches you.

We use every precaution to prevent error, but should any occur, we shall gladly replace all untrue-to-name or undesirable stock free of charge. Under no circumstances will we be liable for more than the invoice value at the time of purchase.

Due to conditions beyond our control, soil, weather, etc., we cannot guarantee growth; however, replacements will be made at half-price on any items that fail to grow providing we are notified in writing within 90 days after planting (by May 15 following delivery on Fall orders).

We want you to be satisfied. If anything is wrong, we want you to write to us.

All prices quoted in this catalog subject to change without notice.

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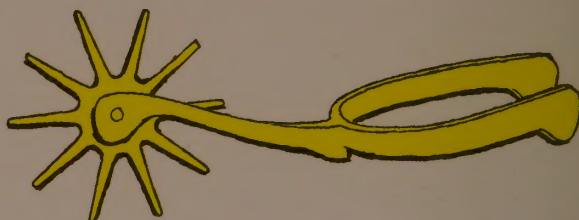
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GOLDSPUR® DELICIOUS

Variety SUNDALE STRAIN *T.M.Reg.U.S.Pat.Off. U.S. Plant Patent Applied for



The Sensational Spur-Type Semi-Dwarf Yellow Delicious



A new mutation of Golden Delicious discovered by Grady Auvil at Sundale Orchards near Roosevelt, Washington.

**Naturally Semi-Dwarf on
Standard Rootstock!
Early Bearing!**

GOLDSPUR® and REDSPUR make an ideal combination planting.

The Apple That Insures Growers a "Golden" Future

GOLDSPUR® Delicious produces large golden apples with the traditional flavor and aroma of its parent. The fruit has the same Golden Yellow color, sometimes blushed with rosy red, and true Golden Delicious texture—crisp, juicy and not as acid as other apples. This new discovery also shows a pronounced trait of setting more fruits per cluster but still producing the most desirable marketable sizes.

The Goldspur® Delicious TREE shows a decidedly compact type growth of more upright habit than its parent, with definite tendency to produce many more fruit spurs per unit length of wood—even at an early age. The foliage is more luxuriant and healthy green. The mature tree will be about the same size as our Redspur Delicious so the recommended planting distance is the same.

ADVANTAGES OF SPUR-TYPE TREE

- More deeply rooted than most dwarf or semi-dwarf trees—being on a standard rootstock, not likely to blow over and less critical of soil or weather conditions.
- More blossom hardy with a greater quantity of bloom to insure good fruit set.
- Smaller size tree cuts cost of spraying, pruning, thinning and harvest; also, maximum size of tree can more easily be controlled by vigorous pruning.
- We predict Goldspur® Delicious will establish new records for low-cost production of Yellow Delicious apples.

AVAILABILITY. The demand for this outstanding new introduction is so great that we cannot produce enough to meet the demand. To insure being able to supply more of our growers with trees this season, necessary to limit a maximum of 300 to any one grower. We encourage placing orders early.

PRICE on GOLDSPUR® DELICIOUS

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$2.10	\$1.95	\$1.70
3/8-1/2 in.	3 to 4 ft.	2.35	2.15	1.80
1/2-5/8 in.	4 to 6 ft.	2.50	2.35	1.90
5/8-3/4 in.	5 to 7 ft.	2.75	2.50	2.00

COMMERCIAL FRUIT GROWERS, ask for special commercial Prices in lots of 50, 300, 1000 or more.



Winter photograph showing natural shape and heavy fruit spur characteristics of tree.



The Sensational Spur-Type Semi-Dwarf Red Delicious

The original bud sport was discovered as a whole tree in a block of Starking Delicious on the Elon Gilbert orchard near Parker, Washington. It exhibited a decidedly compact type growth with a pronounced tendency to form more spurs per unit length of wood, thereby lessening the terminal growth. It is estimated the terminal growth will average only $\frac{2}{3}$ to $\frac{3}{4}$ the length of shoots on adjacent Starking trees . . . this and the heavy annual bearing accounts for the dwarfing effect of the tree.

ORCHARD OF THE FUTURE

The Redspur Delicious tree opens up a new era in economical apple growing . . . I am constantly surprised at its tremendous production with a minimum of pruning and propping, says Elon J. Gilbert. From his observations, Redspur Delicious will establish new records for low-cost production of red Delicious apples. For 4 straight years this outstanding new variety produced at the rate of 2100 loose boxes per acre. And practically 100% extra fancy color!

SUGGESTED PLANTING

We recognize any particular variety of tree will vary in size when grown in different areas under varied climatic, soil and other conditions, including pruning methods; however, based on tree growth of Redspur Delicious in relation to a standard tree, recommended planting is 108 trees per acre (20 ft. on square) as a somewhat permanent planting. Eventually it may necessitate one removal.



REDSPUR DELICIOUS colors early, is a solid all-over-red, and of good type. The finish color retains its bright attractive red and doesn't get the "muddy" appearance of some Starking sports.

Redspur Delicious is proving to have exceptional storage-keeping qualities . . . still in perfect eating condition with true Delicious flavor when taken out of storage at the end of the season.

PRICE on REDSPUR DELICIOUS

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
$\frac{1}{4}$ - $\frac{3}{8}$ in.	2 to 3 ft.	\$1.75	\$1.50	\$1.25
$\frac{3}{8}$ - $\frac{1}{2}$ in.	3 to 4 ft.	2.00	1.75	1.50
$\frac{1}{2}$ - $\frac{5}{8}$ in.	4 to 6 ft.	2.25	2.00	1.60
$\frac{5}{8}$ - $\frac{3}{4}$ in.	5 to 7 ft.	2.50	2.25	1.75

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.



Winter photograph showing spacing of fruit spurs.



Elon Gilbert inspecting Redspur Delicious crop on original tree.



THE SPORT OF SPORTS



U.S. PLANT PAT. NO. 1916



To add to its list of outstanding commercial introductions C & O Nursery now offers the first known sport of the Shotwell Delicious, a variety long known for its many fine characteristics both of tree and fruit.

Tested and Proven

The original sport limb was discovered by Mr. Leonard Hutchinson in his Shotwell Delicious orchard near Tonasket, Washington. By mid-August the fruit on this limb was almost fully colored whereas the balance of the tree was just beginning to show good color.

Second generation fruit now has been produced for five years and shows the same characteristics as the parent limb. Comment made by one prominent horticulturist in comparing the fruit with other similar sports, this new sport "tops them all" . . . prompted our giving it the name TOPRED.

TOPRED DELICIOUS starts coloring with a definite stripe; however, by the time the fruit is mature the background color is completely filled in so the stripe is much subdued and is of a narrower "pin stripe". The fruit develops a darker red than a variety such as our Royal Red Delicious; however, it does not tend to develop the "blackish red" of some red sports.

"Tops Them All" for Early Color

Delaware Experiment Station reports in a recently completed "Evaluation of Color Sports of Red Delicious" comparing the various super-red Delicious sports under uniform conditions that **TOPRED DELICIOUS** is the earliest coloring of all varieties now being offered commercially! The report states that by August 15 in Delaware, **TOPRED DELICIOUS** fruit had reached 100% U.S. Fancy grade for color, and with the ground color already completely covered by red. This increases the opportunity for growers to produce highly colored fruit without having to leave it on the tree until it becomes over-mature.

Similar comparisons have been made at various other Experiment Stations including the Columbia View Station near Wenatchee, Washington—all results prove **Topred Delicious** "tops them all."



Order direct from us.
None **GENUINE**
without this Label

PRICE on TOPRED DELICIOUS

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.75	\$1.50	\$1.25
3/8-1/2 in.	3 to 4 ft.	2.00	1.75	1.50
1/2-5/8 in.	4 to 6 ft.	2.25	2.00	1.60
5/8-3/4 in.	5 to 7 ft.	2.50	2.25	1.75

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.



Second generation fruit being examined by Leonard Hutchinson (discoverer), John, Bert, and Bob Snyder of the C & O Nursery.



U.S. PLANT PAT.
No. 1278



Backed With
Over 50 Years
Experience
None
GENUINE
Without This
Label !

EARLY COLORING—BLUSH TYPE



You Can Plant Royal Red Delicious With Confidence

ROYAL RED DELICIOUS not only starts coloring early, even in the most shaded part of the tree, but has a coloring which more nearly reaches its best at the time when the maturity of the apple also is at its best . . . and the **finish color at maturity means greatest profit.** This sensational new variety also is proving to have exceptional storage-keeping qualities with its intense sparkling cherry red color remaining after several months in storage.

For long storage, the darker red the fruit, the more the color dulls in storage—the lighter red color holds its brightness.



BRANCH OF ROYAL RED DELICIOUS

Introduced in 1952, Royal Red Delicious now is in commercial production in most apple-producing areas of the U.S. Here's random reports of . . .

What Growers Say About Royal Red Delicious

"They were really beautiful last fall at harvest time . . ." Pennsylvania

"The delicious in high favor with our organization is Royal Red . . . we have planted thousands of them . . ." Virginia

"Royal Red Delicious has been very impressive and appears to be a promising strain for Indiana . . ."

"My earlier plantings of Royal Red are beginning to produce a little fruit and the color and quality are out of this world . . ." California

"We have an orchard of your Royal Red Delicious in bearing and like it very much . . ." New Jersey

"We had our first production of Royal Red Delicious . . . they are very nice." Iowa

"The longer you grow it, the better it looks . . ." Washington

"We are most satisfied with the Royal Red Delicious which we planted this past spring. We wish to order 100 trees of this same variety for planting this spring." Delaware.

PRICE on ROYAL RED DELICIOUS

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.50	\$1.25	\$1.00
3/8-1/2 in.	3 to 4 ft.	1.75	1.50	1.15
1/2-5/8 in.	4 to 6 ft.	2.00	1.75	1.25
5/8-3/4 in.	5 to 7 ft.	2.25	2.00	1.40

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.



"SeeAndO"

T. M. Reg.

RED ROME NO. 262

One of the leading Red Rome strains planted in the U.S. This strain proved to be a great improvement over other earlier Red Romes and even with more recent introductions, has continued to hold the lead in commercial plantings.

Its solid, deep, brilliant red color adds greatly to its market value. The apple is more oval than a standard Rome, of good size and heavy cropper. Excellent storage keeping qualities.

Seeando Red Rome No. 262 trees possess all the characteristics of the standard Rome Beauty in manner of growth, appearance, production, early bearing and regularity of bearing.

Discovered as a bud sport by the C & O Nursery, this variety was thoroughly tested, including an initial planting by the Harry F. Byrd Orchards, Winchester, Virginia. Since then this organization has planted over 12,000 Seeando Red Rome No. 262 with most of the trees now in bearing.

VIRGINIA

"For the past few years we have procured our Red Rome replants from local sources. Unfortunately, many of these were not the TRUE 262 Red Rome and it has necessitated doing a lot of extra work grafting them over. The 262 Red Rome is so distinctive an apple it just does not fit into a pack with other strains. We have bought large quantities of 262 Red Rome from you and we found them 'true to type'."



Plant Pat. No. 1414

**The Apple with that
"eye appeal"**

This new variety now is in commercial production, and proving especially popular for the fresh fruit trade. It will depend on the individual grower's market which of the Red Romes to plant.

CALIFORNIA

"In 1959 I planted 400 of your Nero Red Rome apple trees. In their fourth season each tree produced about one dozen beautiful apples. I am so pleased with this variety that I'm contemplating planting additional acreage."

PRICE on NERO RED ROME

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.50	\$1.25	\$1.00
3/8-1/2 in.	3 to 4 ft.	1.75	1.50	1.15
1/2-5/8 in.	4 to 6 ft.	2.00	1.75	1.25
5/8-3/4 in.	5 to 7 ft.	2.25	2.00	1.40

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.

PRICE on SEEANDO RED ROME No. 262

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.35	\$1.15	\$.90
3/8-1/2 in.	3 to 4 ft.	1.55	1.35	1.00
1/2-5/8 in.	4 to 6 ft.	1.70	1.55	1.10
5/8-3/4 in.	5 to 7 ft.	1.95	1.70	1.20

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.



**None GENUINE
without this
Label**

NERO RED ROME develops color earlier, starting with stripes which are scarcely visible in the bright red finish color. Of the newer Red Rome sports, this variety has shown greater color stability. It is a longer apple than standard Rome Beauty, of uniform shape and matures at approximately the same time as conventional Rome varieties. Excellent storage keeping qualities.

Tree appears identical to the Rome Beauty and has proven to be a good annual bearer.

PLANT

C & O

Apple Trees

Varieties marked with an asterisk (*) recommended for Western Washington. Varieties listed in approximate order of ripening.

FOR BEST RESULTS

Summer Varieties

***CRIMSON BEAUTY.** Flaming red, good quality and size. Ripens about 10 days earlier than Lodi. Tree very hardy, vigorous, bears young and heavy producer.

***WELLINGTON.** Large, annually productive and attractively red-striped. Hangs to the tree well and matures its fruit all at one time so requires only one picking. This new variety appears to be superior commercially to other varieties in its season . . . shows real promise as an early commercial sauce apple. Supply limited.

***LODI.** Replacing Yellow Transparent. Fruit ripens a few days later but is larger and stands up better in shipping. Will bear every year through proper use of thinning.

***NEW ORIOLE.** A very good quality apple for eating fresh . . . crisp and juicy. Good for pies, too. Large, attractive red color fruit and tree very hardy. Supply limited.

TYDEMAN'S RED. Fruit resembles McIntosh in size, shape and color. Ripens about 3 weeks before McIntosh, and considered of almost equal quality. Recommended for limited commercial planting.

Fall Varieties

***EARLY McINTOSH.** Resembles McIntosh in appearance, almost red in color, but is less aromatic and more sprightly. Tree vigorous and productive but tends to set too heavy a crop on alternate years so that severe thinning is required to obtain a good commercial size.

***RED GRAVENSTEIN.** Large, bright red, crisp and juicy. An old time favorite cooking apple, especially fine for pies. Hardy.

***MURED McINTOSH** (Summerland Strain). The Summerland, B.C. Experiment Station selected this strain because of its greater color stability. Color solid, deep red and attains its color early. Crisp, juicy, distinctive flavor. Grows well over wide territory, especially desirable for high elevations. Hardy.

SPARTAN. A very attractive McIntosh type apple maturing about two weeks after McIntosh. It has firmer flesh than McIntosh and excellent dessert quality. Considered a better storage variety. Summerland, B.C., Experiment Station introduction.

Winter Varieties

BLACKJON (T.M. Reg.). Identical with common Jonathan in flavor, quality and productiveness. It is distinctly different in that every apple on the tree is colored a beautiful deep cherry-red from two to three weeks earlier. Blackjon can be picked while "hard ripe." Fruit is of good size . . . and Blackjon can solve your pollinizer problems. C & O Exclusive Brand.

IDARED. Originated at the Idaho Agr. Experiment Station. It is a handsome solid red apple of good quality, medium to large. Creamy white, smooth textured flesh. A regular bearer and shows real promise as a late keeping dessert apple.

Continued on next page



WELLINGTON



BLACKJON
(T.M. Reg.)



GENERAL PRICE LIST on APPLES

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.35	\$1.15	\$.90
3/8-1/2 in.	3 to 4 ft.	1.55	1.35	1.00
1/2-5/8 in.	4 to 6 ft.	1.70	1.55	1.10
5/8-3/4 in.	5 to 7 ft.	1.95	1.70	1.20

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.

IMPROVED SEEANO WINESAP
(T.M. Reg.)

APPLES — Winter Varieties, Continued

***KING.** Beautiful large fruit, yellow splashed with crimson. Excellent dessert apple and widely planted in home orchards, especially good for Western Washington.

RED SPITZENBERG. Fruit medium to large. One of the best canning and culinary. Should be planted in milder climates.

IMPROVED BLAXTAYMAN No. 201 (T.M. Reg.). One of the leading Stayman varieties planted in the U.S. Colors earlier, is deeper, richer, solid red. Very resistant to cracking, less windfalls, better keeper in storage. Early bearing. C & O Exclusive Brand.

***WINTER BANANA.** Fruit large size, color waxen yellow with delicate to bright red blush. Tart flavor, good cooker. Tree hardy, fairly vigorous, bears young.

***YELLOW DELICIOUS.** Fruit large, juicy and of exceptionally good quality. Bears young and heavily. A popular commercial variety and every home orchard should have at least one tree.

GOLDSPUR® DELICIOUS (U.S. Plant Pat. Applied for). See page 4 for description and prices.

TOPRED DELICIOUS (U.S. Plant Pat. No. 1916). See page 6 for description and prices.

ROYAL RED DELICIOUS (U.S. Plant Pat. No. 1278). See page 7 for description and prices.

REDSBUR DELICIOUS (U.S. Plant Pat. No. 1822). See page 5 for description and prices.

NERO RED ROME (U.S. Plant Pat. No. 1414). See page 8 for description and prices.

SEEANDO RED ROME No. 262 (T.M. Reg.). Profitable bearing orchards prove the value of this solid, deep, brilliant red colored bud sport of the Rome Beauty. One grower in Virginia alone has over 10,000 trees planted. C & O Exclusive Brand.

ANTONOVKA. A Russian variety. Tree is exceptionally hardy and being recommended for those areas where a hardy top-working tree is desired. Fruit of no practical value.

IMPROVED SEEANDO WINESAP (T.M. Reg.). An improved all-red Winesap. Colors with a stripe and does not tend to russet as will happen with a blush type. Fruit is of darker, earlier color and good size. A selection from the Mosebar strain.

NEWTOWN PIPPIN. Fruit medium to large, uniform in size but variable in form and coloring. Color green at fruit harvest but light yellow later. High quality dessert, excellent for culinary use, a fine cider apple. Does best on lighter soils.

CRAB APPLES

***TRANSCENDENT.** One of the largest of the crabapples, red and yellow striped. Tree good grower, hardy, very productive. Season late August and September.

WHITNEY. One of the most popular of the crabapples. Fruit large size for crabapple, good quality, color yellow striped with carmine, juicy, pleasant flavor. Tree thrifty grower, bears young, very productive. Season August-September.

TRAINING YOUNG APPLE TREES



Apple tree in its first growing season.
At planting, tree was dormant headed.
Left — before, Right — after delayed heading.

The following information is taken from Washington State University Extension Bulletin 522, by Dr. John C. Snyder, Extension Horticulture Specialist.

DELAYED HEADING, also called double heading, is simply heading the tree twice. At planting time you head it about 6 inches higher than you want to head it finally. Then when the top shoots are 4 to 6 inches long you head it 6 inches lower.

This does two things—gets rid of three or four narrow-crotched branches at the top of the tree; also keeps, for a while, the growing shoots at the top of the tree which produce angle-widening hormones.

SELECTING LEADERS. Usually one leader is selected the first year and the other two or more the second year. When selecting leaders be sure they are:

1. Eight inches or more apart on the trunk.
2. Well distributed around the trunk.
3. Form at least 65° angles with the trunk.

The angles of the permanent branches, although wide to start with, soon become narrow. Because of this tendency, it pays to leave more than just the permanent branches.

Leaving extra branches also encourages early production. A safe rule is to leave all the temporary wood you can without damaging the permanent branches. Sometimes temporary branches outgrow permanent branches . . . to avoid this, dwarf them by pruning.

FILLER TREES is a fairly common practice. To make them worth while, you must do two things: (1) select early bearing varieties and (2) prune the fillers very lightly or not at all until they start bearing.

Practice delayed heading and then put your shears away until the trees start bearing. Pruning the young tree delays production and growth.

Dwarf Fruit Trees

Now you can enjoy delicious fresh fruit picked from your own trees—even if you have only a small city lot. These Dwarf Trees produce fruit just like that from standard size trees; however, you can put four dwarf trees in the space occupied by a single standard tree.

Dwarf trees are easier to care for, easier to pick from and you don't have great quantities of fruit to dispose of. And perhaps most important of all they start bearing much sooner than standard trees.

Dwarf Peaches

REDHAVEN. Early, good quality, yellow flesh, highly colored.

VETERAN. Elberta type, excellent for canning, late mid-season.

REDGLOBE. Firm yellow flesh of good flavor.

EARLY IMP. ELBERTA. Excellent quality home canning peach.

Dwarf Plums

MAYNARD. A rich crimson-purple, large, nearly round, early.

PEACH. Very large, roundish, purplish-red, golden yellow flesh.

Dwarf Prunes

EARLY ITALIAN. Resembles Italian, two weeks earlier.

SUGAR. Large, dark purple, yellow flesh, tender and sweet.

Dwarf Pear

BARLETT on Province Quince root

DOYENNE DU COMICE on Province Quince root.

Dwarf Apricots

SUNGLO. One of the finest cots for commercial or home use.

TILTON. Sweet, medium size of excellent quality.

Dwarf Pear Trees Add Color to the Garden.



Dwarf Peach Trees Ideal for Home Gardens.

Dwarf Apples

Dwarf Apples are grown on E.M. IX rootstock which makes a typical dwarf tree . . . under average conditions will grow about 8-10 feet at maturity. They also are propagated by the "interstock" method . . . a short piece of dwarfing stock is interposed between a standard rootstock and the scion variety which gives the dwarfing effect and also a better root; however, the dwarfing effect is less pronounced.

Varieties available on E.M. IX rootstock (see apple section for descriptions)

BLACKJON

LODI

SEEANDO RED ROME No. 262

RED GRAVENSTEIN

ROYAL RED DELICIOUS

YELLOW DELICIOUS

REDSPUR DELICIOUS

TOPRED DELICIOUS

Varieties available on E.M. IX/interstock (see apple section for descriptions)

BLACKJON

LODI

SEEANDO RED ROME No. 262

RED GRAVENSTEIN

ROYAL RED DELICIOUS

YELLOW DELICIOUS

TOPRED DELICIOUS

CARE IN PLANTING DWARF FRUIT TREES

Peach, Apricot, Plum, Prune, Pear and Dwarf Apple on E.M. rootstock—set the trees with the point of union between dwarf root and budded variety about 3 inches above ground (eliminating the chance of the variety rooting on the standard variety). Dwarf Apple grown with an E.M. section, we recommend planting deep enough so that some of the dwarf section is in the ground and eventually will take root (although that is not necessary to obtain the dwarfing effect).

PRICES on DWARF FRUIT TREES

1 YEAR TOP, 2 YEAR ROOT \$2.50 EACH

10 OR MORE \$2.25 EACH

COMMERCIAL FRUIT GROWERS, see pages 12 and 13 for Dwarf and Semi-Dwarf Apple Trees for Commercial Orchards.



Dwarf and Semi-Dwarf

EM VII . . . is suggested as offering the least amount of risk because it has performed well under a wide range of growing conditions. It also tolerates slowly draining soils. Develops about half the size of a standard tree. On heavy, fertile soil tree size will be larger than those on lighter soil—which is generally true of any tree. The rootstock has only fair anchorage so temporary staking is recommended for at least the first few years. Comes into bearing early and a 5 to 6-year-old orchard can produce 1000 bushels per acre.

EM IX . . . develops a full dwarf tree not more than one quarter the size of a standard tree of the same variety and age. It requires permanent support either by using individual tree stakes or wires running the length of the row . . . in general, the more dwarfing the stock the weaker the root system. This stock has been used where various specialized training and pruning methods such as in hedgerows or cordon systems are used to initiate heavy, early bearing of high quality fruit.

Planting distances will vary; however, correct spacing is extremely important for trees on dwarfing stocks. It is essential that the area planted has the maximum amount of bearing wood capable of producing high-quality fruit when the trees reach maturity. The use of fillers may be profitable in dwarf and semi-dwarf plantings to make maximum use of land area and increase early yield. For dwarf trees on E.M. IX rootstock, a distance of 8 to 10 feet in the row with 18 to 20 feet between rows is considered the minimum. Semi-dwarf trees growing on E.M. VII rootstock require a minimum spacing of 10 to 15 feet in the row with 20 to 25 feet between rows. The same spacing can be used for varieties on E.M. II that by nature are not strong growers, such as Rome Beauty; however, on stronger growing varieties the spacing should be increased to 20 to 30 feet in the row with rows 30 feet apart. It is important to have sufficient room between the rows.

Pruning of semi-dwarf apple trees is receiving considerable discussion, but basically selecting the stock that will work out best with a particular system of pruning is a problem for each individual grower according to his soil and other growing conditions. We don't feel trees on EM I and EM II calls for radical changes in pruning over a standard tree . . . Trees on EM VII and "interstock" is quite a different situation, and a central leader seems to be more satisfactory than either a delayed open center or an open center.

SEMI-DWARFS for Early Profits

Within the past few years Dwarf and Semi-Dwarf Apple trees have been receiving greater attention by commercial apple growers. Easier pruning, spraying and harvesting **plus** earlier bearing may hasten a trend toward smaller trees in the orchard.

Of course, many questions arise as to what is the best rootstock . . . how far apart to plant . . . how to prune, etc? A good many answers we don't know; however, by growers trying the various rootstocks or intermediate stocks, different methods of planting, pruning, etc., then coordinating this information through our Dwarf Fruit organizations which have been established in the East and West, should eventually give us the answers. Both the Agricultural Experiment Station at Geneva, New York, and the Agricultural Experiment Station at Corvallis, Oregon, have done extensive work with dwarf stocks for commercial planting. We recommend interested growers sending to the Station at Geneva, New York, for Station Bulletin No. 783 "Rootstocks and Methods Used for Dwarfing Fruit Trees" by K. D. Brase and R. D. Way. Some of our information following is taken from this bulletin.

Semi-Dwarfing Stocks generally being recommended for commercial use are EM VII, EM II and increasing interest in EM I. Some experimental plantings using EM IX dwarfing stock are being made.

EM I . . . will develop a sub-standard size tree, about three fourth the size of a standard tree. Bears young and an exceptionally heavy producer. Does not yield as well on dry soils. This stock not as well known but looks very promising.

EM II . . . will develop a rather large semi-dwarf tree, about two-thirds the size of a standard tree. A stronger root system than EM VII and grows well on widely different soil types. Appears to be a stock that tolerates dry soils. Early bearing.

Varieties available on E.M. I rootstock (see apple section for descriptions):

REDSPUR DELICIOUS	YELLOW DELICIOUS
ROYAL RED DELICIOUS	SEEANDO RED ROME No. 262

Varieties available on E.M. II rootstock (see apple section for descriptions):

REDSPUR DELICIOUS	ROYAL RED DELICIOUS
YELLOW DELICIOUS	SEEANDO RED ROME No. 262
TOPRED DELICIOUS	

Varieties available on E.M. VII rootstock (see apple section for descriptions):

BLACKJON	RED GRAVENSTEIN
LODI	YELLOW DELICIOUS
REDSPUR DELICIOUS	NURED McINTOSH
ROYAL RED DELICIOUS	TOPRED DELICIOUS
IMPROVED SEEANDO WINESAP	NEWTOWN PIPPIN
SEEANDRO RED ROME NO. 262	

Varieties available on E.M. IX rootstock (see apple section for descriptions):

BLACKJON	RED GRAVENSTEIN
LODI	ROYAL RED DELICIOUS
SEEANDO RED ROME NO. 262	YELLOW DELICIOUS
TOPRED DELICIOUS	REDSPUR DELICIOUS

Apple Trees FOR COMMERCIAL ORCHARDS

THE M M DWARFING STOCKS

We now are starting to propagate in limited quantity some varieties on Malling Merton 104 and Malling Merton 106. Experience with these recent introductions from England is so limited that more experience with them is needed before we can recommend them for extensive plantings.

Some of the possible advantages of the M M include: Stronger root system to give better "anchor," don't tend to sucker as do some of the E.M. and resistant to woolly aphis.

If you are interested trying some of the M M, we will be pleased to quote you on what we have to offer.

DWARFING EFFECTS OBTAINED BY MEANS OTHER THAN THE ROOTSTOCK

Because of certain problems with Clonal rootstocks, other possible methods of obtaining dwarfing effect are being tried. One method is use of a section of Malling stock interposed between a standard rootstock and the scion variety. Resulting shoot growth of the scion variety is dominated by the stem piece of the dwarfing stock; however, the dwarfing effect of the interstock tree is less pronounced than it is when the dwarfing stocks are used as root systems.

There is some difference of opinion whether an interstock type tree should be planted with the Malling section entirely above ground level or whether it is desirable to have part of the section below ground level. Although it is not necessary to have part below ground level to obtain the dwarfing effect, we feel doing so has possible advantages. We recommend planting deep enough so that some of the dwarf section is in the ground and eventually will take root.

Varieties available on E.M. VII/interstock

BLACKJON	RED GRAVENSTEIN
IMPROVED SEEANDO WINESAP	REDSPUR DELICIOUS
LODI	ROYAL RED DELICIOUS
NEWTON PIPPIN	TOPRED DELICIOUS
NURED McINTOSH	YELLOW DELICIOUS
SEEANDO RED ROME NO. 262	

Varieties available on E.M. IX/interstock

BLACKJON	ROYAL RED DELICIOUS
LODI	TOPRED DELICIOUS
SEEANDO RED ROME No. 262	YELLOW DELICIOUS
RED GRAVENSTEIN	

STANDARD VERSUS SEMI-DWARF TREES

Information gathered from many sources indicates trees on dwarfing stocks require greater care and attention than trees on seedling rootstocks. That these more shallow-rooted stocks cannot compete with weeds and grass for moisture and nutrients as favorably—frequently requiring extra water and cultivation. Also, dwarfing stocks do not do well as interplants in an established orchard or in locations shaded by larger trees.

Another very important consideration is possible danger of late spring frosts . . . growers are finding the smaller tree is more subject to loss of crop from frost conditions. Also, a variety is subject to alternate bearing the same as on seedling root.

At the present time we do not feel the dwarf type trees are going to replace the standard tree; however, there is a place for them and growers should carefully evaluate their potential value in their future plantings.



On left, 22-year-old McIntosh on E.M. VII root, Standard tree at right.



Row of 7-year-old McIntosh on E.M. IX/interstock with standard root. Planted 10 ft. in the row with 20 ft. between row. Photos courtesy N.Y. Agricultural Experiment Station, Geneva, N.Y.



Block of 12-year-old Yellow Delicious on EM VII rootstock Oregon State College Experiment Station Dwarf Tree Plots, Corvallis.

PRICE on DWARF and SEMI-DWARF APPLE

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$2.15	\$1.90	\$1.40
3/8-1/2 in.	3 to 4 ft.	2.25	2.00	1.50
1/2-5/8 in.	4 to 6 ft.	2.35	2.10	1.60
5/8-3/4 in.	5 to 7 ft.	2.50	2.25	1.75

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.

PLANT **C & O** NORTHERN GROWN *Pear Trees*

C & O Pear trees are grown on Domestic French (Bartlett) root, which is being recommended as the most resistant to Pear Decline.

Varieties marked with an asterisk (*) recommended for Western Washington.

Varieties listed in approximate order of ripening.

BARTLETT. The leading commercial pear. Clear yellow slightly blushed with red, sometimes dotted with russet. Juicy, buttery, excellent dessert, canning and general purpose.

MAX-RED BARTLETT (U.S. Plant Pat. No. 741). A bud sport of the Bartlett, its principal difference is the deep red color of the fruit when it first appears on the tree. As the underlying green turns yellow, the fruit develops a bright red cast. Based on premium prices this variety has been receiving on the New York auction, it has a special appeal to the fresh fruit consumer.

PACKHAM TRIUMPH. Bartlett type pear which ripens about a week later. Excellent pollenizer for Bartlett.

FLEMISH BEAUTY. Fruit medium to large, clear yellow overspread with brilliant red cheek. Shape rather globular. Quality improves when fruit is picked and ripened under cover. Tree very hardy and productive.

FORELLE. Small, very hard pear of nice shape. Used for pickling and also for display use.

BEURRE D'ANJOU. Firm, rather large, flesh yellowish white, rich buttery flavor, good keeper. One of the leading commercial pears. C & O select strain bears earlier than average Anjou.

***DOYENNE DU COMICE.** Large, color clear handsome yellow, sometimes brightened by delicate blush. Rich, juicy, excellent dessert. Sometimes called "Royal Riviera."

SECKEL. Small, color yellowish brown marked with pale russet, often with russet red cheek. Excellent for culinary and pickling. Very sweet.

***BEURRE BOSC** (Fall Russet). Rich yellow overspread with cinnamon russet, flesh tender, melting, almost buttery, juicy with rich piquant flavor. Good quality.

OLD HOME. Blight resistant stock grown principally for top working to other commercial pear varieties. Hardy.

HENRY JESKE, Peshastin, Wash.

North Central Washington 1958 "Grower of the Year". Taken in Anjou pear block approximately one month before harvest.



"I have been planting C & O trees for 25 years and it is my honest opinion that they are the finest trees grown."



See Page 11 for Dwarf Fruit Trees

GENERAL PRICE LIST on PEARS

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.35	\$1.15	\$.90
3/8-1/2 in.	3 to 4 ft.	1.55	1.35	1.00
1/2-5/8 in.	4 to 6 ft.	1.70	1.55	1.10
5/8-3/4 in.	5 to 7 ft.	1.95	1.70	1.20

PRICE on MAX-RED BARTLETT

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.50	\$1.25	\$1.00
3/8-1/2 in.	3 to 4 ft.	1.75	1.50	1.15
1/2-5/8 in.	4 to 6 ft.	2.00	1.75	1.25
5/8-3/4 in.	5 to 7 ft.	2.25	2.00	1.40

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.



Nectarines

A most delicious fruit. Similar to peaches, but have smooth skin and very aromatic. Their habits of growth and soil requirements are similar to peach.

✓ **Le GRAND (Clingstone).** Skin yellow with a bright red overlay. Flesh yellow with red at the pit, and of excellent flavor. Fruit extra large, ripens with Elberta peach.

✓ **SURE CROP (Freestone).** Fruit roundish, white and overlaid with attractive red. Flesh is white, firm, tender and very pleasing flavor. Tree vigorous and productive. Late midseason.

✓ **CAVALIER (Freestone).** Skin attractive red and yellow, good finish. Flesh yellow, good quality and flavor. Introduced 1952.

✓ **REDCHIEF (Freestone).** Skin highly colored—a bright red usually extending over the entire surface. Flesh white, firm and good quality. Keeps well in storage, matures about 10 days before Elberta Peach. Showy flower. Introduced 1952.

GENERAL PRICE LIST on NECTARINES

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
¼-¾ in.	2 to 3 ft.	\$1.35	\$1.15	\$.90
¾-½ in.	3 to 4 ft.	1.55	1.35	1.00
½-¾ in.	4 to 6 ft.	1.70	1.55	1.10
¾-¾ in.	5 to 7 ft.	1.95	1.70	1.20

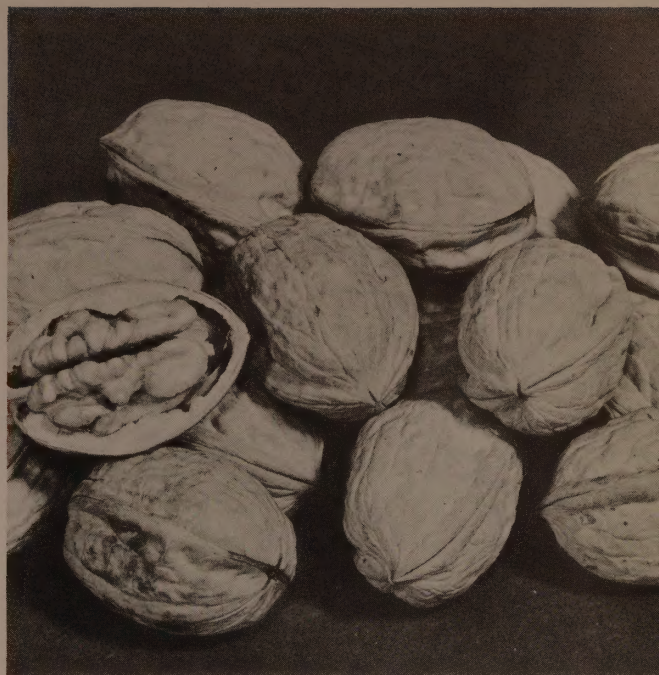
Quince

This unusual fruit especially desirable for jellies and preserves. They grow best in good, deep soil. Trees are hardy, compact in growth, requiring but little space, and come into early bearing. Unlike most other deciduous fruit trees, the fruit buds of the quince are not formed the preceding season, but they develop at the terminal ends of new twigs which grow early in the spring of the current season.

✓ **PINEAPPLE.** The name comes from the flavor, which is suggestive of the pineapple. Fruit large, apple-shaped, light golden yellow, flesh white, tender.

PRICE LIST on QUINCE

CALIPER	APPROX. SIZE	EACH	10 LOTS
¼-¾ in.	2 to 3 ft.	\$1.35	\$1.15
¾-½ in.	3 to 4 ft.	1.55	1.35
½-¾ in.	4 to 6 ft.	1.70	1.55



Nut Trees

It is generally recommended two varieties should be planted together in the right combination to secure most successful pollination. Varieties listed normally cross-pollinize.

ENGLISH and BLACK WALNUTS

3 to 4 foot: \$3.50 each	10 Lots \$3.00 each
4 to 6 foot: 3.95 each	10 Lots 3.50 each
6 to 8 foot: 4.50 each	10 Lots 3.95 each

✓ **CARPATHIAN, English.** The most hardy English Walnut grown. Will thrive in areas where the temperature drops to well below zero. Heavy producer; however, we suggest that more than one be planted for cross-pollination.

✓ **FRANQUETTE, English.** Vigorous grower, late bloomer escaping late frosts. Regular and abundant bearer. Nuts do not sunburn and are large, uniform size, well-filled shell, easily cracked. Grafted on Black Walnut.

✓ **THOMAS, Black Walnut.** One of the finest black walnuts introduced. Nuts large, kernels large and come out in halves similar to English Walnuts, very good quality. Hardy. Grafted on Black Walnut.

ALMONDS

3 to 4 foot: \$1.70 each	10 Lots \$1.55 each
4 to 5 foot: 1.95 each	10 Lots 1.70 each

✓ **DAVEY.** Light-colored, smooth, thin, well-sealed shells, and kernels that are medium-sized, smooth, good texture and flavor. Blooms and intercompatible with Nonpareil. Nuts mature early.

✓ **NONPAREIL.** Nut medium size, soft shell. Kernel is long, plump, sweet and of high quality. Tree is a good cropper and strong grower.

FILBERTS

3 to 4 foot: \$1.95 each	10 Lots \$1.70 each
4 to 5 foot: 2.20 each	10 Lots 1.95 each

✓ **BARCELONA.** Large round nut that drops freely from its husk. Makes a large tree and bears early. Cross pollination essential.

✓ **DUCHILLY.** Very large, long nut of superior quality. Tree not so large as Barcelona but more upright, good bearer. Pollenize.

✓ **ROYAL.** Large, glossy, well-filled, soft-shell nuts of high quality. Heavy producer, requires cross pollination. Of recent introduction. Price 50c per tree additional over above prices.

Peaches

Varieties marked with an asterisk (*) recommended for Western Washington. Varieties listed in approximate order of ripening.



REDGLOBE

GENERAL PRICE LIST on PEACHES

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.35	\$1.15	\$.90
3/8-1/2 in.	3 to 4 ft.	1.55	1.35	1.00
1/2-5/8 in.	4 to 6 ft.	1.70	1.55	1.10
5/8-3/4 in.	5 to 7 ft.	1.95	1.70	1.20

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.

"F" Denotes Freestone; "C" Clingstone; "SC" Semi-Cling.

✓ **EARLIRE**, S.C. New, very early peach released by USDA. Two to five days ahead of Cardinal, medium size, semi-cling when soft-ripe. Surface about 85% covered with a bright red blush over a yellow ground color. Its firm flesh is melting and of good flavor. Tree vigorous.

✓ **SUNHAVEN**, S.C. Fruit medium large, nearly round and uniform in shape. Skin color bright red with sufficient bright golden ground color for attractive contrast. 10 days earlier than Redhaven.

✓ ***REDHAVEN**, S.C. A yellow-fleshed medium sized fruit that is well colored with brilliant red skin surface. High dessert quality and is excellent for canning and freezing, being a non-browning type. Produces an abundant set of fruit buds so requires early and thorough thinning. Month ahead of Elberta.

✓ ***GOLDEN JUBILEE**, F. Skin is yellow, blushed with red; flesh yellow, juicy, medium firm; tender and sweet. Desirable for home, local markets and canning.

✓ ***HERB HALE** (U.S. Plant Pat. No. 588), F. Resembles J. H. Hale in size and appearance. Fruit large, very firm, high quality and attractive appearance. It is an excellent home canner, smooth grained with practically no color at the pit. Bears early, heavy producer and vigorous grower. C & O Exclusive Brand.

✓ **SLAPPY**, F. Large, deep yellow. One of the finest home canners. An old favorite.

✓ **RICHHAVEN**, F. Fruits are large, nearly round, and uniform in size and shape. The ground color is bright golden overlaid with a large, bright red blush on the area exposed to the sun.

✓ **HALEHAVEN**, F. Is one of the oldest of the many so-called "new" peach varieties. It is very attractive, large and of good quality. Tree is vigorous, productive and hardy.

✓ ***VETERAN**, F. Elberta type peach. Tree vigorous grower, early production. Very popular in Canada and west of Cascade Mountains. Hardy in bud.

✓ **REDGLOBE**, F. Has firm, yellow flesh of good flavor, and a bright, attractive skin color. Acceptable for canning and attractive as a frozen product. Has been tested in a number of the important peach areas and has been found especially suited to Pacific Coast conditions and other areas where Elbertas are grown.

✓ **EARLIHALE**, F. A very promising, yellow fleshed, mid-season peach—ripens with Halehaven. Good size, similar in appearance to J. H. Hale, very firm, medium texture and good flavor. Tree is vigorous and productive, requires cross pollination.

PEACHES GROW BEST when the summer temperature is high, and the relative humidity is low. The best soil is a deep sandy loam . . . young trees possibly grow equally well on shallow and deep soils, but as they get older the stunting influence of shallow soil shows up.

The soil must be well drained . . . poor drainage keeps the fruit and wood from maturing properly.

It is difficult to establish young peach trees on old peachland.



"PEACHES AT THEIR BEST"

Janet Hoard helping harvest J. H. Hale crop



EARLY REDHAVEN

U.S. Plant Patent Applied For.

14 Days Ahead of Redhaven

EARLY REDHAVEN, S.C. Discovered as a bud sport limb in a Red Haven orchard near Wenatchee. First budwood from the sport limb was given to both Grady Auvil, well known grower at Orondo, Wash., and to the Columbia View Experiment Station for testing.

The fruit is very similar to its parent in color, size, flavor and texture excepting more round at the apex end . . . and **ripens approximately 14 days ahead of Redhaven**. This new variety should be handled the same as its parent in regards to fertilization and early thinning; otherwise, the variety tends to set a heavy crop and will run to smaller sizes.

The Early Redhaven should prove to be especially valuable, not only because it ripens earlier, but also because it extends the Redhaven season.

(Continued from page 16)

EARLY IMPROVED ELBERTA (Gleason strain), F. Excellent quality, good shipper and commercial canner. Fruit large, golden yellow with a rich and pleasant flavor. About one week ahead of Elberta. In some areas called Golden Elberta.

ELBERTA, F. No other peach is the major commercial variety in as many peach districts in this country as Elberta. Fruit large, bright yellow, and well flavored. Ships and stores remarkably well.

REDSKIN, F. Fruit round, yellow flesh, meets the quality requirements for canning and freezing. Well colored with a deep red blush covering the fruit even when ripening under shady conditions. Fruit appears less susceptible than Elberta to dropping before harvest.

J. H. HALE, F. Very large golden yellow overlaid with brilliant carmine coloring. Yellow flesh, solid and meaty, free from stringiness. First class shipper. Requires cross-pollination.

CANDOKA, F. One of the most beautiful peaches grown. Because of its light pubescence, often called the "fuzzless" peach. About same size as J. H. Hale. Flesh exceptionally firm—almost as solid as a clingstone. Richly flavored. Requires cross-pollination. C & O Exclusive Brand.

INDIAN BLOOD CLING. Medium size, deep red with red flesh. Ideal for pickling and preserving.

MILLER (ORANGE) CLING. Large fruit of uniform size. Deep golden flesh, very firm with pleasing flavor. Excellent for home canning. An old favorite.

Tested and Proven . . . Second and Third Generation trees now are in production. All show the same characteristics of the original sport. Observations and opinions of leading horticulturists assure us this new peach is a valuable addition to the fruit industry.

PRICE on EARLY REDHAVEN

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
¼-¾ in.	2 to 3 ft.	\$1.50	\$1.25	\$1.00
¾-1½ in.	3 to 4 ft.	1.75	1.50	1.15
1½-¾ in.	4 to 6 ft.	2.00	1.75	1.25
¾-¾ in.	5 to 7 ft.	2.25	2.00	1.40

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.

Please refer to page 3 for General Information . . . How to Order, Shipping Season, and Planting Instructions.

EARLY IMPROVED ELBERTA



See page 11 for Dwarf Fruit Trees

Apricots

Varieties marked with an asterisk (*) recommended for Western Washington. Varieties listed in approximate order of ripening.



PERFECTION



RILAND

▼ SUN-GLO



✓ **EARLIRIL.** A new introduction released jointly by the Washington Agricultural Station and the U.S.D.A. Fruit medium size, fine-textured and good flavor. The yellow-orange ground color is more than half covered with an attractive red blush. Requires cross-pollination.

✓ **BLENRIL.** Another new introduction from the Irrigation Experiment Station, Prosser, Wash. Fruit medium size, attractively blushed like Earliril, and has firm yellow-orange flesh which is excellent quality. About same season as Riland. Self-fertile.

✓ **RILAND.** One of the earliest commercial apricots. Globular in shape, easy to pick. Fruit is of high quality, good size, colors highly before it ripens and a splendid shipper. Recommend keeping the tree less vigorous, pruning rather lightly until starting to bear, and provide a pollinizer. C & O Exclusive Brand.

✓ **SUN-GLO** (U.S. Plant Pat. No. 751). Medium size, fine quality and flavor with deep apricot yellow flesh. Attains its color before it ripens so can be picked firm ripe which makes it an exceptionally good apricot for fruit stand sale and for canning. Tree hardy and superior hardiness of fruit buds. Productive and fine shipper. C & O Exclusive Brand.

✓ **PERFECTION.** Fruit oval to oblong, large size—even with heavy crops. Probably the largest fruited apricot available. Color a clear, yellow-orange to deep orange at full maturity—no blush. Quality good, texture satisfactory. Requires cross pollination. Very hardy.

✓ **CHINESE.** This variety is early bearing, a heavy producer. Fruit medium size, yellow, good quality. Has been especially popular in Utah.

✓ **WENATCHEE** (formerly called Wenatchee Moorpark). One of our first introductions about 1908. Large size, good quality, heavy annual bearer and excellent shipper.

✓ **BLENHEIM.** One of the best known for drying and canning. Medium size, oval, deep yellow, excellent quality. Productive.

✓ ***TILTON.** Larger than Blenheim. Is adapted to drying, shipping and canning; however, does not rank as high as Blenheim. Considered one of the best varieties for Western Washington.

✓ **J. L. BUDD.** A small Russian apricot. Very hardy. Will grow where other apricots fail. Delicious kernel.

FRUITING OF APRICOTS AND PLUMS

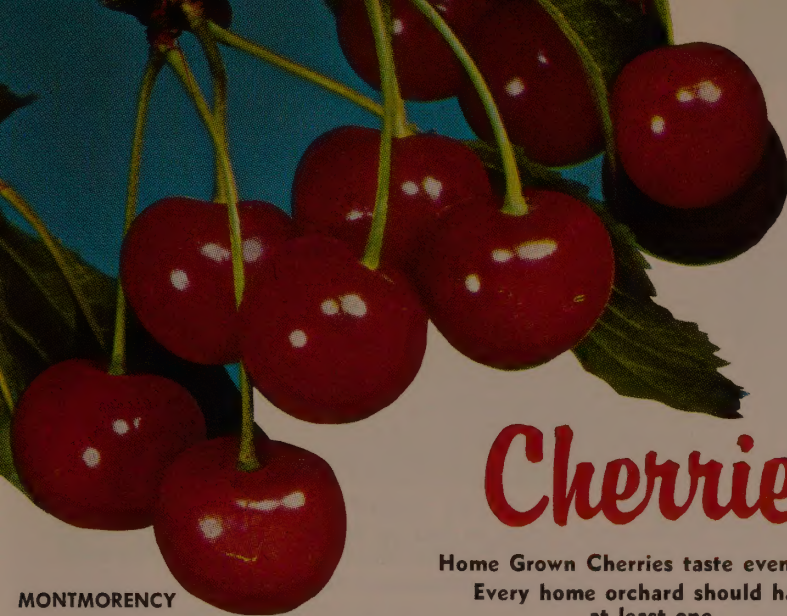
Apricots and early flowering Japanese plum varieties such as Beauty and Santa Rosa bear some fruit on new branches formed the previous summer, and some on fruit spurs that grow out of two-year-old wood.

European plums grow almost exclusively on long-lived fruit spurs.

GENERAL PRICE LIST on APRICOTS

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
¼-¾ in.	2 to 3 ft.	\$1.35	\$1.15	\$.90
¾-1½ in.	3 to 4 ft.	1.55	1.35	1.00
½-5/8 in.	4 to 6 ft.	1.70	1.55	1.10
5/8-¾ in.	5 to 7 ft.	1.95	1.70	1.20

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.



MONTMORENCY



BING

Cherries

Home Grown Cherries taste even better.
Every home orchard should have
at least one.

GENERAL PRICE LIST on CHERRIES

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.35	\$1.15	\$.95
3/8-1/2 in.	3 to 4 ft.	1.55	1.35	1.05
1/2-5/8 in.	4 to 6 ft.	1.70	1.55	1.20
5/8-3/4 in.	5 to 7 ft.	1.95	1.70	1.35

COMMERCIAL FRUIT GROWERS, ask for special
Commercial Prices in lots of 50, 300, 1000 or more.

Varieties marked with an asterisk (*) recommended for
Western Washington.

Varieties listed in approximate order of ripening.

SOUR CHERRIES

MAY DUKE. Size medium, light to dark red, a popular sour variety for culinary use, finely flavored, juicy and rich.

***MONTMORENCY.** Medium size, dark red, good quality and flavor. One of the most popular sour cherries grown in America for home use and in commercial orchards. The leading sour cherry for commercial canneries. Good shipper. Ripens mid-season.

***LATE DUKE.** Fruit large, light red, good quality and flavor. A variation of well known May Duke, ripening considerably later. Not so sweet as May Duke, ripens through a longer season. Blossoming time is late, adapting it to northern conditions. A popular home garden variety.

Note: Some varieties, especially sour cherries, make a lower height in relation to caliper. In these instances the caliper will govern the grades.

Important Facts to Know When Ordering Cherry Trees

We gather and process our own cherry seed from trees approved by state horticulturists . . . trees visibly free from virus diseases. Under the supervision of our own trained crew as well as State and Federal Inspectors, these seedlings are grown and when budded only budwood from inspected trees of proven merit is used. These named varieties are grown another season with the same rigid inspection. After digging, the trees again are closely inspected for any irregularities—the trees you buy are the ones which have met and passed all these requirements.

CHERRY POLLENIZATION

In general, only sweet cherries should be planted for cross-pollination of sweet cherries; however, some sour cherries such as Montmorency may serve as a somewhat satisfactory pollenizer for most sweet cherries. Duke cherries are hybrids between the sweet and sour cherries and will generally set heavier crops when cross-pollinated by either sweet or sour cherries rather than by other Duke varieties.

SWEET CHERRIES

✓**CORUM.** Introduced by the Oregon Agr. Exp. Station. Comparable to Royal Ann in size, shape, appearance and processing quality . . . but ripens 5 to 7 days earlier. Cross pollinizes with other sweet cherries listed.

✓**ROYAL ANN.** Fruit pale yellow with red cheek, large, firm, juicy and sweet. Its large size and attractive color give it preference for canning, and a delicious, refreshing cherry for dessert. Trees bear early, are very productive. Should be pollenized.

✓**SAM.** A recent Canadian introduction. Fruit large, black and resembles Deacon in shape. Firm, of good quality, shows some resistance to cracking and is satisfactory for canning. About a week earlier than Bing and looks promising. Cross pollinizes with other sweet cherries listed.

✓**CHINOOK.** New introduction released jointly by the Wash. Agr. Exp. Station and the U.S.D.A. Fruit ripens 4 to 10 days earlier than Bing, which it resembles in appearance. Cross pollinizes with other sweet cherries listed.

✓**RAINIER.** Another new introduction released with Chinook. Skin is yellow with considerable pink blush. Flesh is clear and the juice colorless. Fruit ripens 3 to 7 days before Bing. Cross pollinizes with other sweet cherries listed.

✓**DEACON.** Certified pollenizer. Black, resembles Bing but not quite as large. Very resistant to cracking. Cross pollinizes with other sweet cherries listed.

✓**VAN.** Certified pollenizer. Another recent Canadian introduction. Fruit resembles Bing and of acceptable size and quality to make it a profitable commercial variety. Pollinizes with other sweet cherries listed.

✓**BING.** Fruit very large, black, almost unequaled in size, attractiveness and quality. One of the finest commercial sweet cherries. Hangs well on the tree, ripens evenly at one time. One of the best shipping and market varieties. Very desirable for the home garden. Ripens mid-season. Should be pollenized.

✓**BLACK REPUBLICAN.** Certified pollenizer. Fruit medium size, good quality and flavor, very dark red, almost black.

✓**LAMBERT.** Fruit large, heart-shaped, firm flesh, rich, sweet flavor. One of the finest shippers and a cherry of first rank for commercial production. About 2 weeks after Bing, and more resistant to late frosts than some of the other sweet varieties. Should be pollenized.



**EARLY ITALIAN
PRUNE**

Prunes & Plums

Varieties marked with an asterisk (*) recommended for Western Washington.

Varieties listed in approximate order of ripening.

GENERAL PRICE LIST ON PLUMS AND PRUNES

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.35	\$1.15	\$.90
3/8-1/2 in.	3 to 4 ft.	1.55	1.35	1.00
1/2-5/8 in.	4 to 6 ft.	1.70	1.55	1.10
5/8-3/4 in.	5 to 7 ft.	1.95	1.70	1.20

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.

"J" denotes Japanese—"E" European

PRUNES

EARLY ITALIAN (Richards Strain). Resembles the Italian prune from which it developed as a bud sport. Has the good characteristics and fruiting qualities of Italian, and a good shipper. Most important—it is two weeks earlier than Italian.

MILTON EARLY ITALIAN. Released by the Oregon Agriculture Experiment Station. Tree and fruit characteristics are essentially those of Italian, except for earliness of season . . . ripens 10 to 14 days ahead of Italian.

***SUGAR**. Fruit large, skin dark purple. Flesh golden yellow; tender, sweet, particularly good for home drying and canning. Contains almost 24% sugar. Tree vigorous, productive, hardy.

***HUNGARIAN**. Fruit large, dark red, juicy and sweet. Its bright color, productiveness and shipping qualities make it profitable for home or market.

***DOUBLE X FRENCH**. Sport of Petite—just as rich and sweet but larger. Excellent for drying, culinary and shipping.

ITALIAN (PR-H-1 Stock). One of the most widely planted varieties. Fruit medium size, dark purple skin, greenish yellow flesh which turns to dark wine color when cooked. Separates freely from pit. Excellent for eating fresh, canning and drying.

STANLEY. Fruit large size, dark blue. Flesh greenish yellow, juicy, fine-grained, tender, firm, sweet and pleasant. Good quality. Mid-season, produces full crops annually and winter hardy.

PLUMS

BEAUTY (J). Similar in quality, texture and appearance to Climax but ripens over two weeks earlier. Fruit medium large, heart-shaped; color brilliant red, flesh yellow; exquisite flavor. Pollenizer for Santa Rosa.

CLIMAX (J). Large, heart-shaped, deep red skin, yellow flesh. Good shipper. Ripens mid-June. Recommend cross pollination.

MAYNARD (J). Large, nearly round, good quality, excellent for home use and shipping. Color rich crimson-purple.

SANTA ROSA (J). One of the largest, most beautiful plums. Flesh yellow, delicious flavor, fragrant. Almost round, uniform in size and shape, dark crimson. Excellent shipper. Requires cross pollination.

***YAKIMA (E)**. Very large, oval shape, red skin, flesh smooth grained, clear golden-yellow, firm. Should be planted with President for cross pollination.

***PEACH (E)**. Large, roundish, skin purplish-red, flesh golden yellow. Excellent fresh, for dessert and also for canning.

IMPROVED DUARTE (J). Large, blood-red plum of excellent quality. Fruit keeps well and is a good shipper. Suggest planting with Santa Rosa for cross pollination.

DAMSON (E). Fruit small, oval, skin dark purple, flesh golden yellow. Excellent canner.

PRESIDENT (E). A late ripening shipping plum, popular and profitable. Fruit is large, roundish, dark blue. Flesh is yellow and of fine texture. Recommend cross pollination.

SPACE LIMITED? PLANT A TRIO

(3 TREES
IN
1 HOLE)

**A Family
Orchard from
a 2 ft. plot**

Enjoy a variety of fruits in the space required for just one tree. Plant all three trees in one hole, but



space each tree approximately 18 to 24 inches apart. Each tree will grow up and produce lots of delicious juicy, tree-ripened fruit. A wonderful way to have a complete orchard in a limited space. Can use either standard trees or Dwarf trees, and have just the varieties you want by ordering from our large selection of varieties.

**SANTA ROSA
PLUM**





The EDWARDS PLUM

U.S. Plant Patent No. 1213



ONE CHANCE IN A MILLION!

Because of his interest in pomology and keen observation, Mr. Lawrence Edwards has made possible a brighter future for the commercial Plum grower.

Several years ago, he discovered a chance seedling which he dug and transplanted on his premises in Oakland, California, where it could be readily observed. As the tree grew, sucker growth developed at the base of the tree; however, rather than cut them off, he permitted them to grow for the purpose of further observation and interest with respect to their characteristics. He was rewarded by the discovery that one of the grown-to-maturity suckers bore fruit which showed very interesting characteristics; and which after second generation reproduction was issued Plant Patent No. 1213 in 1953. Since that time, the variety has been extensively tested in many parts of the country and being recommended for limited commercial planting.

The C & O Nursery is proud to have been selected as exclusive introducer and propagator of the Edwards Plum. When such new varieties are discovered, it is our aim to make available to the growers such **Better Varieties** which mean **Greater Profit**.

A WORD OF CAUTION

The Edwards Plum is proving to be a heavy, annual bearer; in fact, produces such heavy crops of larger size fruit that it is necessary to either thin or adequately prop the limbs. Otherwise, the weight of the fruit can break down the limbs. Proper pruning also will help control such breakage.

Availability

The supply for this season is limited; therefore, we encourage placing advance orders early so the trees can be booked and reserved for planting time desired.

Order direct from us . . . none **GENUINE** without this Label.



Lawrence Edwards inspecting crop on original tree.



THE NEWEST and BEST

Fruit:

Deep purplish red changing to deep, blackish purple when reaching maturity. Very large, uniform size.

Skin:

Thin, tender; tenaceous to flesh—nearly free; no tendency to crack.

Flesh:

Mild and delicate in flavor—is fine and melting but sufficiently firm to keep well and withstand shipping. Good keeper.

Stone:

Semi-free; adheres to flesh along ventral edge. Size, medium.

Ripens:

Average ripening period follows just after Italian Prune.

Tree:

Medium size, medium vigor; productive, regular bearer.

Pollination:

We recommend cross pollination with another European Plum or one of the Prune varieties. Indications are that it is an easy variety to pollinize to insure setting a crop.

Use:

Excellent for table or dessert use; for preserving; and for drying, the fruit when dried and subsequently reconstituted being slightly tart in flavor, and the liquor being maroon color.

PRICE ON EDWARDS PLUM

CALIPER	APPROX. SIZE	EACH	10 LOTS	25 LOTS
1/4-3/8 in.	2 to 3 ft.	\$1.75	\$1.50	\$1.25
3/8-1/2 in.	3 to 4 ft.	2.00	1.75	1.50
1/2-5/8 in.	4 to 6 ft.	2.25	2.00	1.60
5/8-3/4 in.	5 to 7 ft.	2.50	2.25	1.75

COMMERCIAL FRUIT GROWERS, ask for special Commercial Prices in lots of 50, 300, 1000 or more.



Fruit and Berries from

(Spring Delivery only)

If the right varieties are chosen, gardeners who are fond of fruit can have a supply all season through . . . with enough extra for preserving for winter.

Many people consider the raspberry the finest and most delicious of all small fruits, and easy to grow wherever the drainage is good plus good soil.

Currants do not like wet land, but otherwise are not particular where they grow. Keep in mind they are borne on wood several years old.

Of all the small fruits, strawberries are the most popular, although they require the most attention. Grapes are the most adaptable, as they can be grown almost anywhere, and in almost any soil.

BOYSENBERRY, BLACKBERRY RASPBERRY, BLACKCAP

No. 1 Plants: Each 60c, 10 for \$4.50, 50 or more 35c each

THORNLESS BOYSENBERRY. A cross of the Youngberry and Blackberry, having a much larger berry with more of the Blackberry flavor. The thornless variety appears to be equally as hardy as the regular Boysenberry . . . preferred by home gardeners.

MARION BLACKBERRY. Fruits typical blackberry shape, medium size, an attractive bright black. About same season as Boysen, heavier yielder. Strong canes, few in number, are easy to train and make for ease in picking.

CASCADE BLACKBERRY. The finest wild blackberry type we have tried. Fruit two or three times the size of the wild blackberry, firmer, more productive and unaffected by blight. Vines very hardy, vigorous, trailing and more healthy.



RASPBERRIES

WASHINGTON RASPBERRY. A long redcap berry with the sweetness and size of the Cuthbert but more resistant to winter freezing and fully immune to attack by the Western Yellow Rust disease. A heavy yielder and does well on both sandy and heavy soil.

SEPTEMBER RASPBERRY. Bright red berries, firm, non-crumbling and of fine, rich flavor are borne heavily on the old canes in early summer. Then in a few weeks the new canes start a new crop, bearing continuously until frost. Fine for eating fresh, freezing, jams and jelly. Hardy, healthy plants.

CUMBERLAND BLACKCAP. Fruit grows in large clusters, firm and maintaining a good size even under adverse conditions. Canes are thrifty, vigorous and healthy. One of the best blackcaps.

GRAPES

(Listed in Approximate Order of Ripening)

2-year, No. 1 Plants, Each 75c, 10 for \$6.50
50 or More 55c Each

AMERICAN VARIETIES (Hardy)

FREDONIA. One of the best early black grapes. Berries are large and round, flesh is juicy, solid but tender. Vine is vigorous, disease resistant. Do not prune too severely.

CAMPBELL'S EARLY. Ripens about 10 days earlier than Concord, keeps well, has large clusters, and the black berries are sweet and juicy. One of the leading grapes in Western Washington. Also grown under the name of *Island Belle*.

NIAGARA. The number one white grape, often called White Concord. Clusters medium to large, berries about the size of Concord, foxy sweet, skin thin and tender. Vine vigorous and prolific, does well in Western Washington.

CACO. Fruit sweet, rich wine red, large and in compact clusters. Vine very vigorous, upright, healthy and prolific. A few days earlier than Concord and will ripen well in most Western Washington areas.

CONCORD. Still the leading grape in the West. Fruit medium to large, dark purple, globular, skin moderately tough, juicy and sweet. Fine, strong and healthy, standing many hardships. The best grape for jelly, juice and jams.

GOLDEN MUSCAT. Was named for its color and muscat flavor. Clusters very large, tapering and compact. Berries large, oval, juicy, tender, sweet, vinous and aromatic. Vine vigorous and productive. Requires season about 10 days longer than that of Concord to mature.

EUROPEAN VARIETIES (Medium Hardy)

PEARL OF CSABA. A hardy Northern European white grape which has withstood the coldest winters of Eastern Washington. One of the earliest ripening grapes. Berries of medium size; clusters are large, long and well filled. Vine vigorous, highly productive and comes into bearing early.

BLACK MONUKKA. A black seedless table grape of medium size, elongated, tender skin, excellent crisp sweet flavor.

MALAGA. Berry of good size, white, oval, with moderately tough skin. Borne in loose, large clusters. Vine strong grower and very productive. A good table grape.

RIBIER. Intense blue-black color giving appearance of being molded in wax. Large berries on well filled clusters. Firm, juicy and sweet. Good keeping quality.

THOMPSON SEEDLESS. Large clusters of medium sized, white, sweet berries. World's leading raisin variety.

FLAME TOKAY. Large, red oblong berries, firm flesh . . . crisp, juicy and sweet. Heavy producer and a good shipper. A beautiful grape for table use.

Your Garden Taste Better

(Spring Delivery only)

STRAWBERRIES

(No order accepted for less than 25 of a variety)

NORTHWEST (Standard). A newer introduction which has fast become the leading commercial variety grown in the Northwest. Large, beautiful deep red clear through, sweet. Excellent canner and freezer. Bears very heavy.

Per 25 \$1.50; per 50 \$2.50; per 100 \$4.00; per 1000 \$30.00

20th CENTURY (Everbearing). Extra large fruit, very firm and excellent flavor. Bears crop first year planted, heavy producer. Under favorable conditions, the plant makes a vigorous growth, hardy and does well under widely varied conditions.

Per 25 \$2.50; per 50 \$4.25; per 100 \$8.00; per 1000 \$55.00

RED RICH®. The huge, deep red, honey-sweet berries make this about the best strawberry available today. The plants are big and husky with a tendency to keep the berries off the ground. **And Red Rich is really an Everbearer.** Planted in early spring, it will bear from June or early July all through the summer and into the fall. Because of the tremendous yields, fewer plants are needed. Ideal for freezing—best of all, it won't mush up when thawed.

Per 25 \$5.00; per 50 \$8.50; per 100 \$15.00; per 500 \$62.50

PYRAMID STRAWBERRY GARDEN

With New, Built-in
Sprinkler

Price: \$7.95



In one-third the space of the conventional garden method, you can enjoy an abundant season of strawberry production right in your own back yard with a Pyramidal Garden. Easy to pick from, easy to care for, the attractive Pyramid Garden adds beauty and real practical value to any garden or landscape. Bottom ring is 6 feet in diameter. Merely place first band on ground, fill with rich soil. Repeat simple operation for remaining rings. The simple modern way of growing strawberries. Garden Pyramid will accommodate 50 to 75 plants, depending on how you wish to space them. Will not rust nor warp.

GOOSEBERRIES and CURRANTS

(Sold only in State of Washington)

No. 1 Plants: Each 60c, 10 for \$4.50, 50 or more 35c each

OREGON CHAMPION GOOSEBERRY. One of the largest, best commercial varieties, mildew resistant. A favorite for pies and preserves.

PERFECTION CURRANT. Clusters of beautiful red berries, one of the largest and finest grown. Plants vigorous and prolific. Highly esteemed for jellies.

ASPARAGUS, RHUBARB, HORSERADISH

MARY WASHINGTON ASPARAGUS. One of the best. It starts early and produces a heavy crop of very large, tender Asparagus.

\$1.00 Dozen, \$3.00 per 50, \$4.50 per 100

CANADA RED RHUBARB. A fine red type originated in Canada. Plants are healthy, strong growers, producing long deep red to pink ribs of very fine flavor.

Each 50c, \$5.00 per 12, \$15.00 per 50

HORSERADISH (crowns). Will thrive well on any soil that produces crops of any kind. Plants are vigorous.

\$2.00 Dozen, \$7.00 per 50



BLUEBERRIES for Your Garden

Easy to Grow — Very Ornamental

BLUEBERRIES do well in partial shade, but full sun is preferable as the fruit ripens earlier and the sugar content is higher. High summer temperature will not injure the plants providing sufficient moisture is present. Plants also will withstand winter temperatures of several degrees below zero.

CULTURAL SUGGESTIONS

The soil should be acid, not necessarily down to 4.5 pH but if the acidity is less, soil drainage should be especially good. A suitable soil can be easily prepared for home garden growing of blueberries by working leaf mold and rotten sawdust or commercial peat into the ground.

Plant two or more varieties for cross pollination . . . planting distance for home gardens, a spacing of 5 ft. by 3 ft. is generally sufficient . . . a 3 to 4-inch mulch of sawdust worked into the soil each year is recommended, and use of ammonium sulfate as a fertilizer since this has an acid effect and tends to decrease the pH of the soil . . . in areas where plants show iron chlorosis (plants have yellowed leaves and are weak, dwarfed and unproductive), this can be readily corrected through soil application of chelated iron compounds.

Pruning of the bushes is important as it not only increases the size of the fruit but also the vigor of the plant. Young wood produces the largest fruit and some of the older wood should be removed annually in order to force as much young wood as possible. Remove three-year-old wood and older.

EARLIBLUE. Ripens early, hardy, vigorous, productive bush. Berries large, very firm, and of good flavor. Excellent canned.

BLUECROP. Ripens about a week after Earliblue, hardy. Berries large and of beautiful light blue color. Firm and of good flavor.

BLUERAY. About same season as Bluecrop, hardy, vigorous and very productive. Berries large, high-flavored and sweet when blue.

BERKELEY. Late season. Bush vigorous and productive. Berries large and attractive, lightest blue. Not quite as hardy as others.

3 year, 12-18", Each \$1.75, 10 for \$16.00,

25 or more \$1.40 ea.



Block of C & O one-year apple trees in late September. Note the uniform growth and vigor of these trees.



In the fall trees must be properly mature before digging. A block of one-year pear trees ready for harvest.



C & O's specially built digger insures against injury to either the roots or the tops.



C & O's Sales Office, Shipping Department and Modern Storage is one of the finest in the West.



The kind of trees you can expect to receive at proper planting time for your section.

"C. & O." TREES GO AND GROW EVERYWHERE!

Wherever you may be—East or West—North or South—we will deliver dependable C & O trees to you. We guarantee them to reach you safely and in good condition for planting.

A few representative letters received from our customers in various parts of the country are quoted on this page.

BIGFORK, MONTANA

"Thanks for your prompt service and I congratulate you on all the nursery stock that I have seen here in our community on the Flathead. It has all been wonderful. A pleasure to deal with your company."

YAKIMA, WASH.

"I am very well satisfied with your nursery stock. We lost ONE tree out of 1000, which I feel is exceptional."

SAFFORD, ARIZONA

"Our trees arrived in perfect condition . . . the root system was even more than we had hoped for."

WELLESVILLE, OHIO

"The trees arrived and without a doubt the finest I have ever received from any nursery."

WEYMOUTH, MASS.

"All stock from our last order doing swell and bearing heavily . . . I have never purchased better stock anywhere."

GOLD HILL, OREGON

"The fruit trees we have planted from your nurseries are the best trees we have ever had . . . they all made a wonderful growth."

WALNUT CREEK, CALIF.

"The trees in my order are without doubt the best trees I have ever grown. They have nearly caught up with many of the trees I planted the year before . . . wish I had heard of your nursery before."

BRIGHAM CITY, UTAH

"The 390 trees I received from you last spring were all very good trees and arrived in perfect condition. Every one grew and doing fine."

COLFAX, CALIF.

"My order of trees that I received last year arrived in excellent condition, every tree grew remarkably well. The trees have five feet of growth on them now."

ORCHARD PLANTING CHART

Number of Trees for an Acre

8' x 10' — 544	18' x 20' — 121
8' x 14' — 388	20' x 20' — 108
8' x 15' — 363	20' x 24' — 90
10' x 10' — 435	20' x 30' — 72
10' x 14' — 311	22' x 22' — 90
10' x 15' — 290	22' x 24' — 82
10' x 20' — 218	22' x 30' — 66
12' x 12' — 302	24' x 24' — 75
12' x 15' — 242	25' x 25' — 69
12' x 20' — 181	25' x 30' — 58
14' x 14' — 222	27' x 27' — 60
14' x 20' — 155	30' x 30' — 48
15' x 15' — 193	33' x 33' — 40
15' x 20' — 145	35' x 35' — 35
16' x 16' — 170	36' x 36' — 33
16' x 20' — 136	40' x 40' — 27
18' x 18' — 134	

To find the number of trees required per acre, multiply the distance in the row by the distance between the rows and divide into 43,560.

Finest Roses in the West

Large Thrifty Two-Year-Old Plants Will Bloom This Year

All of the varieties which we offer have been issued a U.S. Plant Patent

This Symbol denotes

ALL-AMERICA



Rose Winners, chosen

for top performance in

all parts of the U.S.

AMERICANA. A glorious rich red flower, big and stirring with color. **Each \$3.00**

AZTEC. Flaming scarlet-orange flowers reach 6 in. across. **Each \$2.75**

CHRYSLER IMPERIAL. Brilliant flashing red with big blooms of 40 to 50 petals. **Each \$2.50**

DUET. Spectacular bi-color, rich salmon and carmine. **Each \$3.00**

FIRST LOVE. Dainty rose-pink, shading to dawn pink. Long buds. **Each \$2.50**

GRANADA. 1964 AARS Winner. New bi-color of scarlet, nasturtium red and bright lemon yellow. **Each \$3.50**

KING'S RANSOM. Huge, high-centered, full, double blooms of clearest chrome-yellow. **Each \$3.50**

KORDES PERFECTA. Pink, or rose-red, and cream in a delightful blend of colors. Large, well formed blooms. **Each \$2.50**

MOJAVE. Glowing radiant orange-scarlet and vermilion tones. Free blooming, vigorous. **Each \$2.75**

NEW YORKER. The best red rose of all time—huge non-fading clear red bloom, excellent form. **Each \$2.50**

PEACE. Magnificent in its golden, pink-edged, superb large blooms. **Each \$1.50**

PINK PEACE. A dusty kind of pink with a remarkable hairline edging of lighter color. Large blooms. **Each \$2.75**

ROYAL HIGHNESS. 1963 AARS Winner. Magnificent clear, light pink, high-centered exhibition bloom. **Each \$3.50**

SUTTER'S GOLD. Each bloom a golden beauty touched with flushes of pink or red. **Each \$2.75**

TANYA. Glowing, true orange-colored blooms. Long, slender buds. **Each \$3.50**

TIFFANY. Radiant pink with gold at base of petals. Exquisite form, fragrant. Vigorous. **Each \$2.75**

TROPICANA. 1963 AARS Winner. Non-fading, fluorescent orange-red, sweetly fragrant blooms. **Each \$3.50**

WHITE KNIGHT. Retains the pure satiny white color through the life of the bloom. Long buds. **Each \$2.75**

FLORIBUNDAS

CIRCUS. Changeable colors in the blooms from yellow, orange, buff pink and scarlet. **Each \$2.50, 3 for \$6.60**

FASHION. Beautiful coral suffused with gold. One of the finest and most popular. **Each \$2.00, 3 for \$5.25**

GOLD CUP. Non-fading, deep yellow blooms 3 to 3½ in. across. Glossy foliage. **Each \$2.00, 3 for \$5.25**

GOLDEN SLIPPERS. Abundant blooms of fluorescent orange and gold. Compact plant. **Each \$2.50, 3 for \$6.60**

PINOCCHIO. Salmon, flushed with gold, extremely double blooms in large clusters, hardy. **Each \$1.50, 3 for \$3.75**

SARATOGA. 1964 AARS Winner. Gardenia-like, pure white blooms 4 to 4½ in. Lovely old rose fragrance. Vigorous grower. **Each \$2.50, 3 for \$6.60**

SPARTAN. Well shaped buds of burnt-orange unfolding to lasting blooms of deep coral-salmon. **Each \$2.00, 3 for \$5.25**

VOGUE. The rich cherry-coral color is very distinctive. Foliage dark green. Fragrant. **Each \$2.00, 3 for \$5.25**

GRANDIFLORAS

JOHN S. ARMSTRONG. Deep dark red, unequaled in richness of color. Profuse blooms. **Each \$3.50, 3 for \$9.30**

MONTEZUMA. Beautiful slender buds of vivid coral-salmon, opening to salmon-orange blooms. **Each \$2.75, 3 for \$7.20**

PINK PARFAIT. Blend of delicate pastels, varying from salmon-pink to rich rose-pink. **Each \$3.00, 3 for \$7.95**

QUEEN ELIZABETH. Pure pink blossoms come in profusion on long cutting stems. **Each \$2.50, 3 for \$6.60**

STARFIRE. Distinctive for its luminous, currant-red, non-fading color. **Each \$2.50, 3 for \$6.60**

CLIMBING ROSES

DON JUAN. Constant display of deep velvety red, 5-in. flowers with delightful fragrance. **Each \$3.00**

IMPROVED BLAZE (Repeat Blooming). Produces masses of bright, double red blooms. Hardy. **Each \$1.75, 3 for \$4.65**

CORAL DAWN (Everblooming). The coral-pink flowers give enormous masses of lovely color. **Each \$2.75, 3 for \$7.20**

GOLDEN SHOWERS. Exquisitely shaped buds of daffodil-yellow opening to large golden-yellow blooms. Prolific bloomer. **Each \$2.50, 3 for \$6.60**



GRANADA



SARATOGA



CI. GOLDEN SHOWERS

DECIDUOUS *Flowering Shrubs*

Select them for beautiful flowers, colorful foliage, and berries . . . For those who are looking for garden plants that will require least care, we suggest using more of the outstanding flowering shrubs from our selections. We offer here a select list of ornamental shrubs that includes the best of those whose worth has been proven. No other single group of plants can take their place. They give wonderful variety of form, habit, color and size such as must be used in order to create the polished, finished look we all want in our gardens. It is almost impossible to make a house look and feel like a real, lived-in home without well-placed shrubs. They smooth out the foundation, accentuate the architectural beauties of the structure, soften or hide the harsh lines, give background to the lawn and flowers. And, each kind in its season, they are notable for their masses of colorful bloom.



FORSYTHIA



▲ **WEIGELA BRISTOL RUBY**



▼ **WEIGELA VARIEGATED**

ALMOND, Double Pink. Small shrub, bearing an abundance of double, rose-pink flowers on closely set branches before leaves appear in early spring. **Each \$1.75, 3 for \$4.50**

ALTHEA (Rose of Sharon). Large, upright shrub with dark glossy-green foliage. Blooms from early summer to late fall. Flowers are large, very double and available in brilliant **RED** or **PINK**. Excellent specimen shrub. **Each \$1.75, 3 for \$4.50**

BARBERRY—See variety listings under Hedge Plants, page 27.

BEAUTY BUSH. Long arching branches covered in the spring with clusters of small, pink flowers borne in such profusion that the shrub is one cloud of delicate pink. **Each \$1.50, 3 for \$4.05**

BUTTERFLY BUSH (Buddleia). Upright, strong growing shrub with long spikes of colorful bloom from early summer continuous to frost. Usually desirable to cut this shrub back severely in the winter. Available in **ROSE-PINK** or **WINE RED**. **Each \$1.75; 3 for \$4.50**

DEUTZIA GRACILLIS. A dwarf shrub with pure white flowers in May. Profuse bloomer. **Each \$1.50, 3 for \$4.05**

DEUTZIA PRIDE OF ROCHESTER. A fine tall growing shrub, large double flowers tinged rose. In June its long, pendulous sprays are a lovely sight. **Each \$1.75, 3 for \$4.50**

FORSYTHIA LYNWOOD GOLD (Plant Pat.). Lights up the entire yard in the early spring with its masses of large, deep yellow flowers. Upright growth. Easy to grow. **Each \$2.00, 3 for \$5.25**

HONEYSUCKLE TARTARIAN. Makes a magnificent tall, bushy plant. Bright flowers followed with loads of red berries. Thrives in sun. Available in **PINK** or **RED** flowers. **Each \$1.50, 3 for \$4.05**

HYDRANGEA, ARBORESCENS (Hills of Snow). From June to August covered with large flowerheads of pure white. Makes a rounded compact bush 3 to 4 feet tall. For shady places. **Each \$1.50, 3 for \$4.05**

HYDRANGEA P.G. The tip of every branch in July develops large, cone-shaped flowers, blooming from mid-summer to frost. White at first, turning pink and bronze in fall. Flowers are borne on new wood. 4 to 6 ft. at maturity. **Each \$1.50, 3 for \$4.05**

HYPERICUM SUNGOLD (Plant. Pat.). Low growing shrub covered with large golden flowers all summer. **Each \$1.75, 3 for \$4.50**

MOCK ORANGE, MINNESOTA SNOWFLAKE (Plant Pat.). This improved variety is very showy with its large, double, pure-white, fragrant blooms. Upright bush, tall growing. **Each \$2.00, 3 for \$5.25**

POTENTILLA GOLD DROP. Low-growing shrub with small fern-like, vivid green foliage. A profusion of bright, buttercup yellow flowers from June 'til frost. Prefers full sun. **Each \$1.75, 3 for \$4.50**

BUDDER FRENCH LILACS. These lovely fragrant French Lilacs are unquestionably among the finest and most beautiful of flowering shrubs. Hardy. Following varieties: **Each \$2.50, 3 for \$6.75**

Charles Joly. Double, purple-red, rather large blooms held erect well above the foliage. One of the very best.

Katherine Havemeyer. Double, mauve pink, large blooms. Our choice for an excellent pink lilac.

Ludwig Spaeth. Single, deep maroon-red. Although one of the oldest of the improved lilacs, still one of the very best.

Miss Ellen Willmott. Double, pure white, large blooms. We consider this variety one of the best white lilacs.

QUINCE, JAPANESE FLOWERING. Large open, orange to dazzling scarlet flowers in early spring followed with a quince fruit. **Each \$1.50, 3 for \$4.05**

HEDGES • VINES

VINES are without a doubt the finest kinds of plants for space-saving in the garden, and for covering walls, fences, trellises, garages, etc. Many of them give needed height, interest and beautiful flower in all kinds of places where it would be impossible to have always wide-growing trees or shrubs.

HEDGE plants can include many other shrubs not listed below. Wherever space permits, and where it is therefore not necessary to do severe, frequent trimming to keep the hedge within bounds, we have any number of flowering shrubs which not only have attractive natural form but which also will make striking displays when in bloom. In addition to deciduous shrubs, several Evergreen types make excellent hedges or screens.

SPIREA. One of the most popular family of shrubs, including a variety of growth habits, flower colors and uses. Following varieties:

Anthony Waterer. Dwarf shrub with flat heads of rosy-red bloom at intervals through the summer. Fine for a low hedge, for foundation planting, etc. **Each \$1.50, 3 for \$4.05, 10 for \$11.00**

Azure Blue (Caryopteris). A new blue Spirea with deeper color and darker foliage than Blue Mist. Compact, low growing, blooms from August to frost. **Each \$1.75, 3 for \$4.50**

Prunifolia. The true Bridalwreath. In May the long, sweeping branches are literally covered their entire length with small, double white rosette flowers. **Each \$1.50, 3 for \$4.05**

Trilobata. Compact, dwarf growing form of Van Houttei. Flowers and blooming season the same. **Each \$1.50, 3 for \$4.05**

Van Houttei. Strong, upright grower with long, slender branches that droop gracefully with their weight of flowers which appear in the spring. Used as specimen or hedges. **Each \$1.50, 3 for \$4.05, 10 for \$11.00**

TAMARIX HISPIDA. Very tall growing shrub, erect with feathery bluish-green foliage, tipped with billowy masses of pink flower spikes from May until autumn. **Each \$1.75, 3 for \$4.50**

VIBURNUM OPULUS STERILE. The "old fashioned" Snowball. Produces masses of globular clusters of pure white snowball-like flowers in early June. **Each \$1.50, 3 for \$4.05**

VIBURNUM PLICATUM (Japanese Snowball). In June it produces abundance of white balls of bloom. Clean, deep green foliage. Upright, vigorous grower. Ornamental. **Each \$1.75; 3 for \$4.50**

WEIGELA BRISTOL RUBY. Sparkling ruby red, trumpet-shaped flowers in great profusion appear in June and followed with a generous scattering of bloom throughout the season. Makes a beautiful informal hedge or specimen plant. About 5-7 feet. **Each \$2.00, 3 for \$5.25, 10 for \$15.00**

WEIGELA PURPUREA. This dwarf growing shrub adds interest to every garden. Its purple foliage and reddish-purple, trumpet-shaped flowers bloom intermittently all summer. **Each \$1.75; 3 for \$4.50**

WEIGELA ROSEA. Delicate pink, trumpet-shaped flowers cover the arching branches in June. Tall growing. **Each \$1.75, 3 for \$4.50**

WEIGELA VARIEGATED. Also called Golden Leaved. Sparkling pink and white trumpet-shaped flowers in June. The variegated foliage adds color and interest all summer. **Each \$1.75, 3 for \$4.50**

VINES and CREEPERS

Our Vines and Creepers are all two or more years of age. No. 1 Grade.

HONEYSUCKLE, Hall's Japan. Small trumpet shaped flowers of white which gradually change to light yellow. Covered with powerful, sweet, fragrant flowers during May and June. Vigorous, hardy. **Each \$1.25**

HONEYSUCKLE, Gold Flame. The large, flame-coral trumpets lined with gold, fragrant after nightfall, appear in immense showy clusters from May until frost. Rich, dark green foliage. Hardy. **Each \$1.50**

IVY, Boston. Clings to brick or wood, forms a dense, mat-like foliage, spreads rapidly. Loses its leaves in winter, permitting any dampness to dry out. Often used to cover unsightly objects. **Each \$1.25**

IVY, Englemann. Creeper. Very hardy, fast growing. Leaves are beautiful in summer, turning a brick crimson in autumn. **Each \$1.25**

WISTERIA (Sinensis). Well known in all parts of the country for the long hanging clusters of pea shaped flowers. The immense purple flower racemes produce a very striking effect. Hardy. **Each \$1.50**



PRIVET HEDGE

HEDGES

BARBERRY Crimson Pigmy. A miniature form of Redleaf. Bronzy, blood-red foliage throughout the season. Does best in full sun. **Each \$1.50, 3 for \$4.05**

BARBERRY Thunbergi. Bright attractive green foliage, bright red berries throughout winter. Grows 3 to 4 feet high.

	Each	10	25	50
18 to 24 in...	\$1.25	\$11.00	\$18.75	\$30.00
15 to 18 in...	1.10	9.00	15.00	25.00

BARBERRY Red Leaved. Graceful shrub 3 to 4 ft. with bronzy, blood-red foliage the entire season. Scarlet berries all winter. Does best in full sun. Also ideal for specimens.

	Each	10	25	50
18 to 24 in...	\$1.25	\$11.00	\$18.75	\$30.00
15 to 18 in...	1.10	9.00	15.00	25.00

PRIVET, English. Smooth, dark green glossy foliage. Can be trained high or lower. Plant 16-20" apart.

	Each	10	25	50
3 to 4 ft....	\$1.00	\$7.50	\$12.50	\$22.50
2 or 3 ft....	.90	6.00	10.00	17.50

PRIVET, Lodense. Low growing variety. Can be maintained 15 inches or taller. Plant 12 inches on center.

	Each	10	25	50
15 to 18 in...	\$1.10	\$9.00	\$15.00	\$25.00
12 to 15 in...	1.00	7.50	12.50	22.50

We have many fine garden plants in stock that are not listed in this catalog. We invite you to visit our modern garden center for all your gardening needs.

TREES *for shade*

Selecting the right tree is an important decision. Trees planted for shade represent an investment in time as most trees take years to reach maturity. Flowering trees should blend in with the color scheme of your home as well as your garden.

Note — Figures following variety name indicate approximate height of trees at maturity.

ASH, BLUE. 40 ft. Compact, globe shaped, with bluish green foliage which turns pale yellow in fall. No bloom or seed pods. Hardy. **6-8 ft. \$5.50**

ASH, GREEN. 50 ft. A native hardwood, forms shapely round top. Fairly fast grower. Good foliage, clean. **6-8 ft. \$4.50 ea., 8-10 ft. \$5.25 ea.**

BIRCH, EUROPEAN WHITE. 35 ft. Creamy-white bark in sharp contrast with the dark green foliage. Upright, graceful shape. Desirable for lawn or street planting. **5-6 ft. \$3.25 ea., 6-8 ft. \$4.25 ea., 8-10 ft. \$5.50 ea.**

BIRCH, CUT-LEAF. 50 ft. Tall and slender, graceful drooping branches with delicately cut foliage. The white bark of trunk and limbs make it a tree of rare beauty summer and winter. **5-6 ft. \$4.00 ea., 6-8 ft. \$5.00 ea.**

CATALPA, WESTERN. 50 ft. In June fragrant, 2½ inch lustrous white, orchid-like flowers hang in open 7-inch clusters. As the flowers fade, odd foot-long "beans" appear. Beautiful large leaves. Fast grower. **6-8 ft. \$3.50 ea., 8-10 ft., \$4.50 ea.**

FLOWERING CRAB, ALMEY. 15 ft. Large crimson flowers crowd the branches to the tips. Scarlet fruit in the fall which hang on into the winter. Foliage green. **4-5 ft. \$3.50 ea., 5-6 ft. \$4.00 ea.**

FLOWERING CRAB, IMPROVED BECHTEL. 15 ft. Large, double, pure pink blossoms, blooms very freely. Leaves larger and more oval with more color interest than the Bechtels. **3-4 ft. \$3.00 ea., 4-5 ft. \$3.50**

ELM, AMERICAN. 80 ft. A noble and stately native tree of fairly rapid growth. Wide, spreading top. **5-6 ft. \$3.00 ea., 6-8 ft. \$3.75 ea.**

ELM, SIBERIAN (or Chinese). 40 ft. Very fast growing, drought resistant and thrives under adverse soil, even in alkali. Small leaves. **5-6 ft. \$2.00 ea., 6-8 ft. \$2.50 ea., 8-10 ft. \$3.50 ea.**

GOLDEN RAIN. 20 to 30 ft. Mid-summer flowers form on upright spikes often 1½ feet in height which last about a month. These are followed by "Chinese Lantern" shaped seed pods which often hang on all winter. **4-5 ft. \$3.50 ea., 5-6 ft. \$4.50 ea.**

GOLDEN CHAIN. 20 to 30 ft. Late in the spring long hanging racemes of golden yellow flowers appear, often 18 to 20 inches long. Very ornamental tree. Greenish bark and clover-like leaves. **5-6 ft. \$3.50 ea., 6-8 ft. \$4.50 ea.**

GINKGO BILOBA (Maidenhair Tree). 50 ft. The most ancient of tree varieties. Foliage resembles maidenhair fern, bright green, turning yellow in autumn. Slow growing. Beautiful tree. **4-5 ft. \$5.00 ea., 5-6 ft. \$6.00 ea.**

HAWTHORN, PAULS SCARLET. 25 ft. Large clusters of scarlet miniature rosette flowers cover the tree in spring with small red fruits fall and winter. **5-6 ft. \$3.00 ea., 6-8 ft. \$4.50 ea.**

LINDEN, AMERICAN (Basswood). 60 ft. Excellent shade tree, round, compact top, fragrant yellow bloom, deep green foliage. Medium grower. **6-8 ft. \$4.00 ea.**

LOCUST, BLACK. 60 ft. Valuable as a quick-growing shade tree, drought resistant. Racemes of white, sweet-scented flowers in June. **6-8 ft. \$3.00 ea.; 8-10 ft. \$3.75 ea.**

LOCUST, HONEY (Thornless). 50 to 60 ft. Lacy, open growth habit. Fast growing, hardy, easy to grow. **5-6 ft. \$3.00 ea., 6-8 ft., \$3.75 ea.**



PRUNUS THUNDERCLOUD



▲ GLOBE MAPLE

▼ GREEN ASH



...and flowers

LOCUST MORAINÉ, P.P. 50 to 60 ft. Thornless, seedless, fast growing. Delicate green lacy foliage, graceful and stately.

6-7 ft. \$6.50 ea.

LOCUST, SKYLINE. P.P. 50 ft. A graceful, spreading tree with fresh, delicate foliage. Grows straight and strong without staking, producing a uniform head with a minimum of trimming. Clean.

6-7 ft. \$6.50

LOCUST, PINK FLOWERING. 40 ft. Similar in habit of growth to Black Locust, bearing racemes of deep pink flowers. Blooms intermittently throughout summer.

5-6 ft. \$3.25 ea., 6-8 ft. \$4.00 ea.

LOCUST, GLOBE. 15 to 20 ft. Its top forms a very dense, almost perfect globe shape without trimming.

6-7 ft. stem: No. 1 head \$6.00 ea., No. 2 head \$4.00 ea.

LOCUST, SUNBURST, P.P. 30 to 40 ft. Another of the Honey Locust family having bright, golden-yellow branch tips in the spring which makes it look like a flowering tree. Seedless and thornless.

6-7 ft. \$6.50 ea.

MAPLE, FAASENS RED. 60 ft. Handsome tree with brilliant dark crimson, nearly black foliage, all through the season. Introduced from Holland.

5-6 ft. \$4.00 ea., 6-8 ft. \$5.50 ea.

MAPLE, GLOBE. 15 to 20 ft. An exceptionally fine lawn and street tree. Has natural globe head.

6-7 ft. stems: No. 1 head \$6.00 ea., No. 2 head \$4.00 ea.

MAPLE, NORWAY. 60 ft. Beautiful symmetrical rounded head, dense, dark green foliage. One of the best general purpose trees. Medium fast growing and good for a life-time.

5-6 ft. \$2.75 ea., 6-8 ft. \$3.50 ea., 8-10 ft. \$4.50 ea.

Continued on Page 30



▼ SUNBURST LOCUST



▼ SKYLINE LOCUST



WHITE BIRCH



SHADE AND FLOWERING TREES—Continued

MAPLE, CRIMSON KING. (Plant Pat.). 50 ft. Like the Schwedleri, it develops a rounded, compact top of unusual symmetry . . . but, the foliage retains its deep crimson color all season.
5-6 ft. \$4.50 ea., 6-8 ft. \$6.50 ea.

MAPLE, SILVER (Soft Maple). 75 ft. Rapid growing, large, wide-spreading. Roots tend to grow near the surface.
5-6 ft. \$2.25 ea.; 6-8 ft. \$3.00 ea.; 8-10 ft. \$4.00 ea.

MOUNTAIN ASH, EUROPEAN. 30 ft. Dark green, fern-like foliage, small white flowers in late spring with clusters bright orange-red berries through the fall and winter. Very ornamental.
5-6 ft. \$3.25 ea., 6-8 ft. \$4.25 ea.

MULBERRY, RUSSIAN. 45 ft. Very hardy, rapid growing small tree, rather bushy top. Dense bright green foliage, fruit in abundance which attract all kinds of birds.
5-6 ft. \$2.50 ea., 6-8 ft. \$3.00 ea.

FLOWERING PEACH, CAMELLIAFLORA. 15 to 20 ft. Bright double pink flowers. One of the most brilliant, early blooming trees.
3-4 ft. \$2.25 ea., 4-5 ft. \$2.75 ea.

FLOWERING PEACH, RED WEEPING. 8 ft. Artistic drooping branches covered with bright red blossoms in early spring is a sight to behold. Delightful addition to any garden.
3-4 ft. \$3.00 ea., 4-5 ft. \$3.50 ea.

FLOWERING PLUM, TRILOBA. 6 to 8 ft. Double, bright pink blossoms completely cover the tree. (Rose Tree of China.)
2-3 ft. \$2.00 ea., 3-4 ft. \$2.50 ea.

FLOWERING PLUM, THUNDERCLOUD. 15 ft. Clouds of light pink bloom in early spring followed by bronzy-purple foliage, holding this color throughout the summer. Very striking.
3-4 ft. \$2.50 ea., 4-5 ft. \$3.00 ea.

POPLAR, BOLLEANA. 50 to 60 ft. Tall, narrow-topped tree. Grayish-green bark, foliage dull green with silvery underneath. Fast grower, will thrive anywhere.
6-8 ft. \$2.75 ea., 8-10 ft. \$3.50 ea.

POPLAR, LOMBARDY. 60 to 80 ft. Tall, spire-like outline makes it very picturesque. Often spread of less than 10 feet. Desirable for windbreaks. (Ask for quantity prices.)
5-6 ft. \$1.50 ea., 6-8 ft. \$2.25 ea., 8-10 ft. \$3.00 ea.

SMOKE TREE ROYAL PURPLE. 8 to 10 ft. This new, rare tree we imported from Holland. The rich purple foliage with huge masses of feathery purple flowers produces an effect unequaled by any other shrub.
2-3 ft. \$3.50 ea., 3-4 ft. \$4.25 ea.

SWEETGUM (Liquidamber). 40 to 50 ft. Tall pyramidal tree with handsome maple-like foliage which in the fall turn to beautiful autumn reds and golds.
5-6 ft. \$4.25 ea., 6-8 ft. \$5.00 ea.

SYCAMORE, AMERICAN (Plane Tree). 60 ft. One of the fastest growing trees, and we consider one of the best in a large tree. A lofty, wide-spreading top, dense foliage, large leaf.
6-8 ft. \$4.25 ea., 8-10 ft. \$5.50 ea.

TULIP TREE. 60 ft. Handsome pyramidal tree, erect habit, interesting large odd-shaped leaves. Yellowish green tulip-like flowers in spring; about 5 years before blooms develop.
5-6 ft. \$3.50 ea., 6-7 ft. \$4.25 ea.

WILLOW, WISCONSIN WEEPING. 40 ft. Fast growing, green bark and deep green delicate foliage. Graceful, drooping branches.
5-6 ft. \$2.75 ea., 6-8 ft. \$3.50

Larger specimen sizes available in some shade tree varieties listed. We invite your inquiry.

Orchard Supplies

F.O.B. Wenatchee — In Washington add 4% sales tax.

Gashell

Per lb. \$1.25
10 lbs. or more \$1.00 lb.



Imported
Swiss
GRAFTING
WAX

gives a firm adhering, air-tight and water-tight covering, which can be freshly applied at any time. Working with this Grafting Wax is very agreeable, as it does not stick to the fingers. Neither has any spatula to be used, and the wax need not be warmed.

Protect Young Trees From Sunburn
Use TREE PROTECTORS



A tree just planted is very susceptible during the first season's growing to injury by sunburn. Some seasons, particularly where the cultural conditions are not favorable, there can be a large percentage of loss.

This damage usually appears first near ground level on the southwest side of the tree, which then continues to spread around the trunk and eventually girdle the tree.

Also protects from Snow Burn, Mice Damage. Treated Cardboard Protectors with 2 wires attached for easy application. Estimated average life 2 years. The cheapest Tree Insurance.

15" Height\$3.75 per 100
18" Height 4.25 per 100

GRAFTING TAPE—Paper masking tape,
1/4 x 60 yds., per roll\$.75 ea.
12 or more rolls60 ea.

KNIVES, Budding—Case, No. 533, fixed handle\$2.50 ea.

KNIVES, Grafting—Case, No. 8, Jumbo, fixed handle\$3.50 ea.

BUDDING RUBBERS—Top quality budding strips, manufactured by B. F. Goodrich Co. . . .

Length	Width	Thickness	Approx. No./lb.
4"	3/16"	.010"	2800
5"	3/16"	.010"	2250
6"	3/16"	.020"	1080
8"	3/8"	.020"	450

1-5 lbs.\$3.00 per lb.
5 lbs.—up 2.75 per lb.

Please refer to page 3 for General Information . . .
How to Order, Shipping Season, and Planting Instructions.

COMMERCIAL PRICE LIST

For Fall 1963 — Spring 1964

FRUIT TREES on STANDARD SEEDLING ROOTSTOCK

Fruit Trees all 1 year top, 2 year root, whips except for certain varieties which naturally branch. In those instances where a variety makes a lower height in relation to caliper, the caliper will govern the grade.

APPLES — Excepting Varieties Listed Below

Caliper	Approximate Size	50 Lots	300 Lots	1000 Lots
1/4 - 3/8 inch	2 to 3 foot	\$.80	\$.75	\$.70
3/8 - 1/2 inch	3 to 4 foot	.90	.85	.80
1/2 - 5/8 inch	4 to 6 foot	1.00	.95	.90
5/8 - 3/4 inch	5 to 7 foot	1.10	1.05	1.00

ROYAL RED DELICIOUS and NERO RED ROME —

1/4 - 3/8 inch	2 to 3 foot	\$.90	\$.85	\$.80
3/8 - 1/2 inch	3 to 4 foot	1.00	.95	.90
1/2 - 5/8 inch	4 to 6 foot	1.10	1.05	1.00
5/8 - 3/4 inch	5 to 7 foot	1.20	1.15	1.10

REDSPUR DELICIOUS and TOPRED DELICIOUS —

1/4 - 3/8 inch	2 to 3 foot	\$1.05	\$1.00	\$.95
3/8 - 1/2 inch	3 to 4 foot	1.15	1.10	1.05
1/2 - 5/8 inch	4 to 6 foot	1.25	1.20	1.15
5/8 - 3/4 inch	5 to 7 foot	1.35	1.30	1.25

GOLDSPUR® DELICIOUS

1/4 - 3/8 inch	2 to 3 foot	\$1.30	\$1.25	\$1.20
3/8 - 1/2 inch	3 to 4 foot	1.40	1.35	1.30
1/2 - 5/8 inch	4 to 6 foot	1.50	1.45	1.40
5/8 - 3/4 inch	5 to 7 foot	1.60	1.55	1.50

PEARS — Excepting Varieties Listed Below

1/4 - 3/8 inch	2 to 3 foot	\$.80	\$.75	\$.70
3/8 - 1/2 inch	3 to 4 foot	.90	.85	.80
1/2 - 5/8 inch	4 to 6 foot	1.00	.95	.90
5/8 - 3/4 inch	5 to 7 foot	1.10	1.05	1.00

MAX - RED BARTLETT —

1/4 - 3/8 inch	2 to 3 foot	\$.90	\$.85	\$.80
3/8 - 1/2 inch	3 to 4 foot	1.00	.95	.90
1/2 - 5/8 inch	4 to 6 foot	1.10	1.05	1.00
5/8 - 3/4 inch	5 to 7 foot	1.20	1.15	1.10

CHERRIES

1/4 - 3/8 inch	2 to 3 foot	\$.90	\$.85	\$.80
3/8 - 1/2 inch	3 to 4 foot	1.05	1.00	.95
1/2 - 5/8 inch	4 to 6 foot	1.15	1.10	1.05
5/8 - 3/4 inch	5 to 7 foot	1.25	1.20	1.15

PEACHES, APRICOTS, PLUMS, PRUNES — Excepting Varieties Listed Below

1/4 - 3/8 inch	2 to 3 foot	\$.80	\$.75	\$.70
3/8 - 1/2 inch	3 to 4 foot	.90	.85	.80
1/2 - 5/8 inch	4 to 6 foot	1.00	.95	.90
5/8 - 3/4 inch	5 to 7 foot	1.10	1.05	1.00

EARLY REDHAVEN PEACH —

1/4 - 3/8 inch	2 to 3 foot	\$.95	\$.90	\$.85
3/8 - 1/2 inch	3 to 4 foot	1.05	1.00	.95
1/2 - 5/8 inch	4 to 6 foot	1.15	1.10	1.05
5/8 - 3/4 inch	5 to 7 foot	1.25	1.20	1.15

EDWARDS PLUM —

1/4 - 3/8 inch	2 to 3 foot	\$1.05	\$1.00	\$.95
3/8 - 1/2 inch	3 to 4 foot	1.15	1.10	1.05
1/2 - 5/8 inch	4 to 6 foot	1.25	1.20	1.15
5/8 - 3/4 inch	5 to 7 foot	1.35	1.30	1.25

Prices based on total quantity . . . subject to change without notice.

COMMERCIAL PRICE LIST

For Fall 1963 — Spring 1964

FRUIT TREES on DWARF and SEMI-DWARF ROOT STOCK

Fruit Trees all 1 year top, 2 year root, whips except for certain varieties which naturally branch. In those instances where a variety makes a lower height in relation to caliper, the caliper will govern the grade.

Price on all varieties excepting Redspur Delicious, Royal Red Delicious, Topred Delicious

Caliper	Approximate Size	25 Lots	50 Lots	300 Lots	1000 Lots
3/8 - 1/2 inch	3 to 4 foot	\$1.35	\$1.25	\$1.20	\$1.15
1/2 - 5/8 inch	4 to 6 foot	1.45	1.35	1.30	1.25
5/8 - 3/4 inch	5 to 7 foot	1.60	1.45	1.40	1.35

On East Malling I

BLACKJON
SEEANDO RED ROME NO. 262
YELLOW DELICIOUS

On East Malling II

SEEANDO RED ROME NO. 262
YELLOW DELICIOUS

On East Malling VII

BLACKJON
IMP. SEEANDO WINESAP
LODI
NEWTOWN PIPPIN
NURED McINTOSH
RED GRAVENSTEIN
SEEANDO RED ROME NO. 262
YELLOW DELICIOUS

On East Malling IX

SEEANDO RED ROME NO. 262
YELLOW DELICIOUS

On East Malling VII/Interstock

BLACKJON
IMP. SEEANDO WINESAP
LODI
NEWTOWN PIPPIN
NURED McINTOSH
RED GRAVENSTEIN
SEEANDO RED ROME NO. 262
YELLOW DELICIOUS

National Agricultural Library

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OCT 23 1963

U. S. Department of Agriculture

On East Malling IX/Interstock

BLACKJON
SEEANDO RED ROME NO. 262
YELLOW DELICIOUS

Price on ROYAL RED DELICIOUS, REDSPUR DELICIOUS and TOPRED DELICIOUS —

ON EAST MALLING I ON EAST MALLING VII ON EAST MALLING VII/INTERSTOCK
ON EAST MALLING II ON EAST MALLING IX ON EAST MALLING IX/INTERSTOCK

Caliper	Approximate Size	25 Lots	50 Lots	300 Lots	1000 Lots
3/8 - 1/2 inch	3 to 4 foot	\$1.50	\$1.40	\$1.35	\$1.30
1/2 - 5/8 inch	4 to 6 foot	1.60	1.50	1.45	1.40
5/8 - 3/4 inch	5 to 7 foot	1.75	1.60	1.55	1.50

Price on REDSPUR DELICIOUS, ROYAL RED DELICIOUS and TOPRED DELICIOUS —

On MALLING MERTON 104

ON MALLING MERTON 106

Caliper	Approximate Size	25 Lots	50 Lots	300 Lots	1000 Lots
3/8 - 1/2 inch	3 to 4 foot	\$1.70	\$1.60	\$1.55	\$1.50
1/2 - 5/8 inch	4 to 6 foot	1.80	1.70	1.65	1.60
5/8 - 3/4 inch	5 to 7 foot	1.95	1.80	1.75	1.70

Prices based on total quantity . . . subject to change without notice.

Directions for SUCCESSFUL GARDENING

Have Continuous Color from Spring Through Fall with Flowering Shrubs!

MARCH and APRIL Blooming

- ALMOND, Double Pink
- FORSYTHIA, Lynwood Gold
- *HEATHER, Mediterranean
- QUINCE, Japanese Flg.

MAY Blooming

- *AZALEA, Evergreen and Mollis
- BEAUTY Bush
- *DEUTZIA Gracillis
- HONEYSUCKLE Tartarian
- MOCK ORANGE, Minn. Snowflake
- *POTENTILLA Gold Drop
- RHODODENDRONS
- SPIREA Prunifolia

- SPIREA Van Houttei
- VIBURNUM Burkwoodi

JUNE Blooming

- DEUTZIA P of R
- HYDRANGEA Arborescens
- *HYDRANGEA Nikko Blue
- LILACS, French Budded
- *SPIREA Anthony Waterer
- TAMARIX Hispida
- VIBURNUM Plicatum
- WEIGELA, all varieties

JULY Blooming

- ALTHEA, Rose of Sharon
- BUDDLEIA, Butterfly Bush

- *HEATHER, F. D. Maxwell
- HYDRANGEA P. G.
- *HYPERICUM Sungold
- SMOKE TREE, Royal Purple

AUGUST AND SEPTEMBER Blooming

- *SPIREA Azure Blue

Some shrubs listed bloom intermittently all summer up until frost. For additional information and more complete shrub listing, please refer to pages 26 and 27.

Varieties marked with an asterisk () are low growing.

PRUNING TIP

Some shrubs, like lilacs, rhododendrons and azaleas, produce new growth at the tips of canes and branches each year. For the most part, these shrubs need to have weak growth thinned out. Occasionally they may be headed back to keep them in bounds. Other shrubs like spiraea, forsythia and beautybush send up new unbranched canes each year. These canes branch the second year but do not grow from the tip. Some new canes should be left each year. Canes that are three years old or older should be removed.



1 2 3 4 5 6

GROWING HABITS of Various Groups of Evergreens

- 1—Fir; Scotch Pine; Norway, Colorado Green, Blue and Koster Spruce.
- 2—American and Beverleyensis Arborvitae.
- 3—Pyramidal Arborvitae; Edwoodi Cypress; Alberta Spruce; Upright Yew.
- 4—Globe and Little Gem Arborvitae; Dwarf Mugho Pine; Filifera and Dwarf Golden Retinospora; Dwarf Nest Spruce.
- 5—Savin, Pfitzer Compact, Chinese and Golden Juniper; Spreading Yew.
- 6—Andorra, Tamarix and Waukegan Juniper; Dwarf Yew.

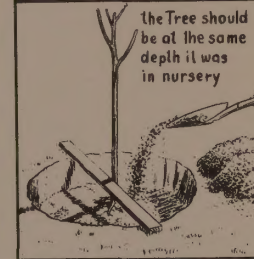
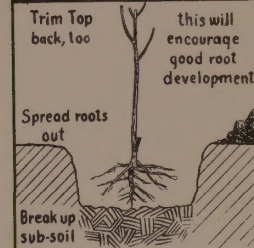
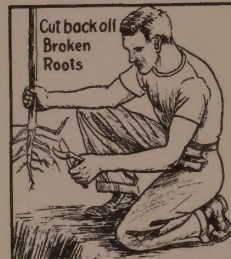
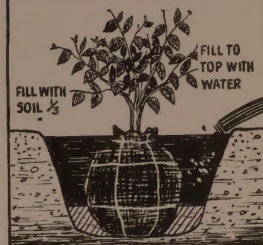
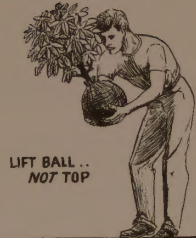
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PLANT TREES FOR COMFORT

If you are concerned about the comfort of the members of your family and your friends, then a thought must be given to trees. Surely, our handsome deciduous shade trees cast a cool shadow in the heat of summer, but they also accommodate us by permitting the warmth of the winter sun to shine down into the rooms of our homes. Disagreeable winds can be controlled to a considerable extent, also. In summer, even on a fairly warm day, a wind crossing the home grounds too vigorously does reduce the pleasure of being out of doors.

Trees are especially effective in making the home grounds more comfortable in the winter if you happen to live in an exposed location. For winter protection a combination of thick, deciduous shrubs and trees with conifers is recommended to make the big difference between a relatively calm and windswept, exposed situation. If you have such a problem, let us help you with it.

And, while speaking of comfort, we might mention the glare of the brilliant sun which is manifest in two ways; first, the direct rays of the sun, if in line with a pleasant view, cause discomfort to the eyes; second, light reflected from a paved surface such as a terrace, street or walk can be a source of considerable irritation. Frequently, a tree can be planted to interrupt these direct rays of sunshine, or one can be located so as to cast a shadow on any highly reflective surface. One of our selections, the very best obtainable, will aid greatly in making your garden more comfortable.



C & O Northern Grown Evergreens



A PARTIAL FIELD OF C & O NORTHERN GROWN EVERGREENS

Over 30 Acres — Supervised by specially trained men is devoted to growing C & O Ornamentals

Visit our Sales Display Yard where we maintain a complete selection of sizes including choice specimens. All plants clearly priced . . . we invite you to compare Quality and Price. We also are pleased to quote prices by mail upon request.

ARBORVITAE (Thuja)

Includes some of the most beautiful and useful evergreens in cultivation . . .

AMERICAN
BERCKMAN'S DWARF GOLDEN
GLOBE
LITTLE GEM
PYRAMIDAL

FIR (Abies)

These develop into large trees. For specimen planting or windbreaks . . .

CONCOLOR
DOUGLAS

PINE

DWARF MUGHO
SCOTCH

SPRUCE

We now offer some of the newer, dwarf forms especially desirable for modern landscapings, as well as the old time favorites.

ALBERTA, Dwarf
COLORADO BLUE
COLORADO GREEN
KOSTER BLUE
NEST, Dwarf
NORWAY

JUNIPERS

A family of hardy evergreens, including trees of various habits of growth from broad, bushy trees and spire-like columnar specimens to low-growing types which creep along the ground.

ANDORRA
BURKI
CANARTI
DUNDEE
EASTERN RED CEDAR
GLAUCA
MEYER
PFITZER COMPACT
PFITZER CHINESE
PFITZER GOLDEN
SAVIN
TAMARIX
WAUKEGAN

YEW

These Japanese yews survive quite severe winters, will grow in either sun or shade and withstand smoky city conditions better than most other evergreens.

TAXUS cuspidata nana
TAXUS cuspidata var.
TAXUS media

BROADLEAF EVERGREENS AND BALLED SHRUBS

AZALEAS
COTONEASTER
DAPHNE
DOGWOOD
PYRACANTHA
HEATHER
HYDRANGEA
MAGNOLIA
MAPLE
MAHONIA
RHODODENDRONS
VIBURNUM

All plants are **balled in earth** and securely wrapped with burlap. Shipped by express or motor freight, and sold f.o.b. Wenatchee, Wn.

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